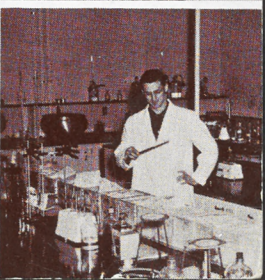
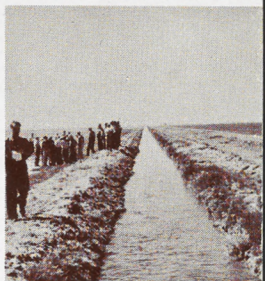


SASKATCHEWAN WHEAT POOL

VARIETY TESTS 1959



COVER PICTURE

"Jackie Leibel, Balgonie"

This young man standing in the gateway to his father's farmyard, is at the same time standing at the gateway to life. In today's diversified agriculture he has a choice of many roads from which to choose his life's work. Whatever his choice, opportunity and the challenge of the future await him.

SASKATCHEWAN WHEAT POOL

VARIETY TESTS

WHEAT, OATS, BARLEY, and RAPE

1959



Published by

SASKATCHEWAN WHEAT POOL

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FOREWORD

BY THE PRESIDENT OF THE SASKATCHEWAN WHEAT POOL

Throughout the history of agricultural development in Western Canada, science has made an important contribution, and in no phase of agriculture has it played a greater part than in cereal grain production.

The individual efforts of men like David Fife and Charles Saunders have been replaced in little more than a man's lifetime, by modern plant breeding techniques requiring teamwork of specialists in many related fields. These modern techniques have speeded the rate of development of new varieties to meet particular problems. They have even made it possible to cross two different crops such as wheat and rye to produce an entirely new crop. With further understanding of the nature of plant growth, who can guess what the future holds?

This booklet contains a report of more than three hundred cereal variety tests located throughout the grain growing area of the province. These tests, conducted on a voluntary basis by young farm men and women, are designed to provide a comparison of several grain varieties under the various growing conditions which exist in different parts of the province.

On behalf of the Saskatchewan Wheat Pool, I would like to express sincere appreciation to these supervisors whose interest and enthusiasm contributed so much to the success of this project.

John H. Wesen

Introduction

This booklet is a report of results of more than three hundred cereal variety tests conducted throughout the grain growing area of Saskatchewan during 1959. The tests, supervised by young farm men and women, are designed to compare the value of several grain varieties grown side by side under various growing conditions in different parts of this province.

Since most readers will be primarily interested in one area of the province or in one particular crop, a detailed table of contents has been provided to assist the reader to find the section which is of particular interest to him. An alphabetical index at the end of the report will enable the reader to find the report of any individual test. For quick reference, yield information in chart form is given on page 48 for wheat, page 43 for oats, page 65 for barley and page 82 for rape. A brief summary of the year's results can be found in the "Conclusions" section on page 87.

The following table shows the types of tests conducted in 1959 and the varieties included in each.

Project	No. of Tests	Varieties
Wheat.....	130	Thatcher, Canthatch, Selkirk, Pembina, Lake.
Oats.....	42	Garry, Rodney, Exeter, Fundy, Glen.
Barley.....	120	Husky, Parkland, Hannchen, Montcalm, Compana, Vantage, Traill. (1)
Rape.....	32	Golden, Regina II, R-5, Arlo, Polish.
Total.....	324	

(1) Only five of the seven barley varieties listed were included in each test. Husky, Parkland and Hannchen were included in tests in all parts of the province. Compana was tested in cereal variety zones 1B and 1C only. In the remainder of the province it was replaced by Montcalm. Vantage was included in tests located in the western, south-western and west-central part of the province. It was replaced by Traill in tests located in the eastern, south-eastern and northern cereal variety zones.

ORGANIZATION OF THE TESTING PROGRAM

As in previous years the 1959 variety testing project was planned and carried out under the direction of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance during the year was provided by Dr. W. J. White, head of the Department and by Drs. E. N. Larter and D. R. Knott. The threshing, summarizing and statistical analysis were carried out at the Head Office of the Wheat Pool under the direction of A. D. McLeod.

In planning the project an attempt was made to distribute the tests as uniformly as possible throughout the grain growing area of the province. The map on page 5 shows the distribution which was achieved. Each individual test was conducted by a young farm man or woman selected for the work by the Wheat Pool delegate in each sub-district. Much of the credit for the success of this testing project is due to the interest and effort of these young people.

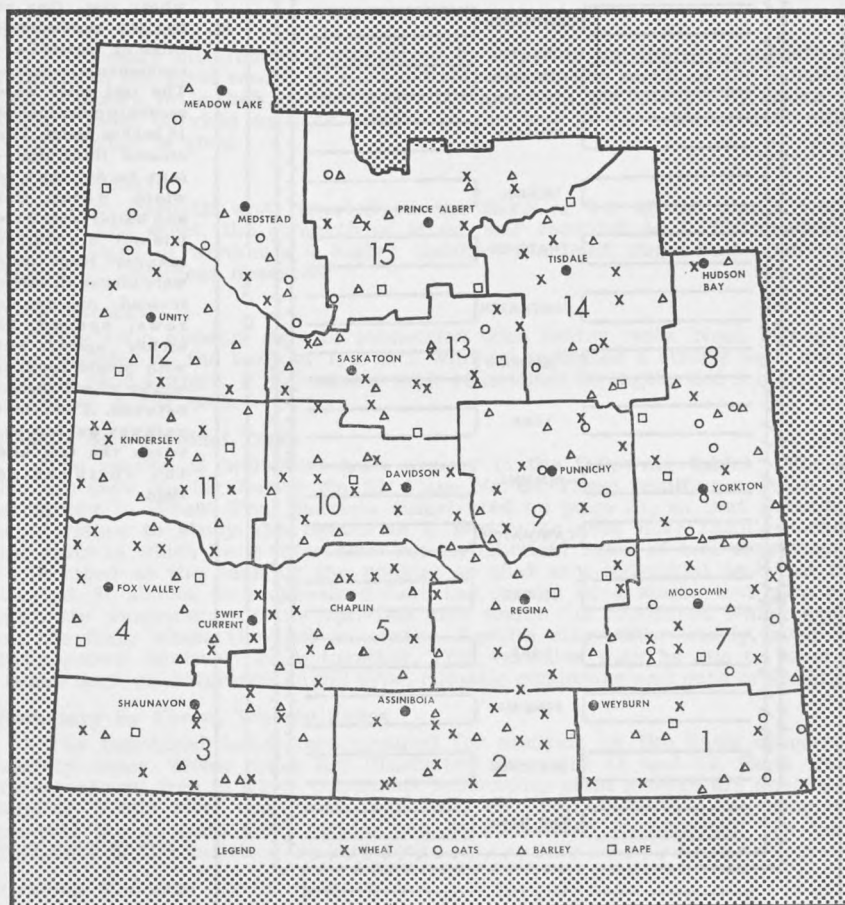
Seed and equipment for each test was prepared at the Head Office of the Wheat Pool and mailed to the supervisors with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. A rain gauge was supplied to each supervisor and a part of his duties was to measure and record the amount of rainfall during the four month growing season. In the fall each test was harvested, dried, wrapped in paper and

shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared on the basis of threshing results together with information gained from reports completed by supervisors and delegates.

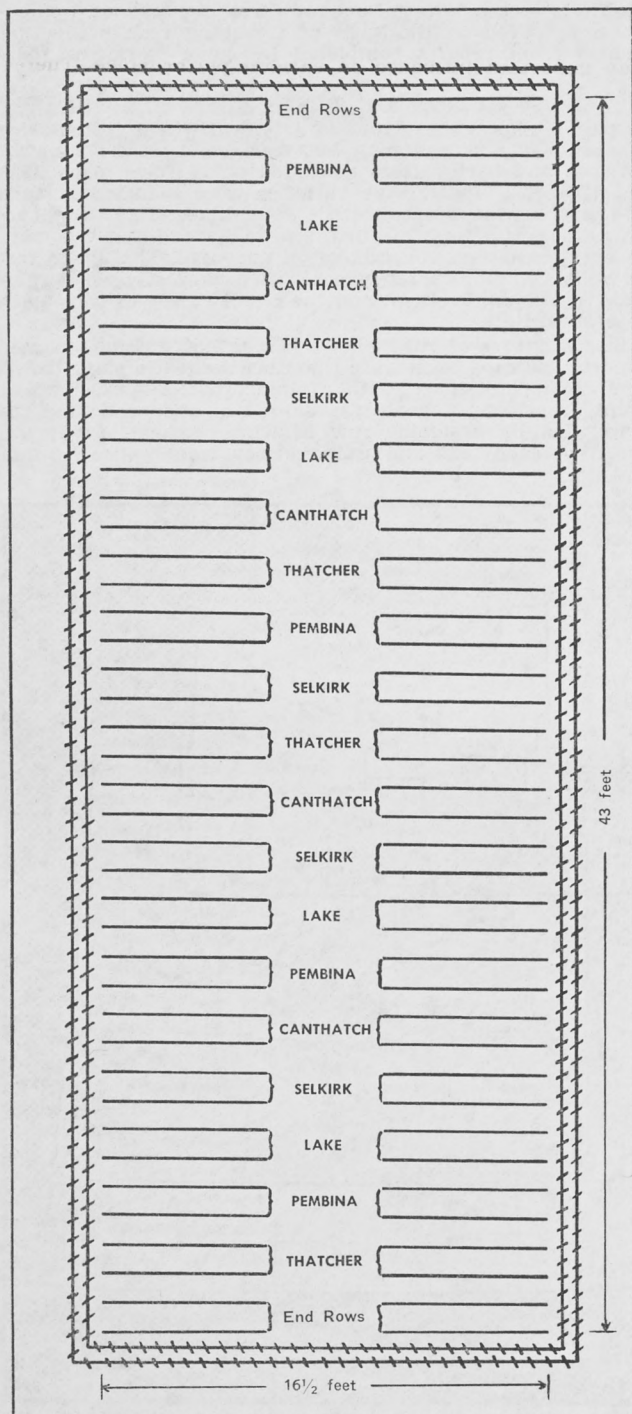
DESCRIPTION OF TESTS

The diagram on page 6 shows the layout of a typical wheat test. Barley and oat tests were similar in size and plan but rape tests were somewhat different. The wheat, oat and barley tests consisted of 44 rows, each $16\frac{1}{2}$ feet long and spaced 12 inches apart. Five varieties were included in each test and each variety was repeated (replicated) four times. Each replicate included a pair of rows to give a total of 40 test rows. In addition two rows were seeded at each end of the test for protection purposes. The whole test was surrounded by a double row of winter wheat. When harvesting, each pair of test rows was made into a single sheaf, and the twenty sheaves were each threshed and weighed separately.

Because of the bushy nature of rape plants it was not possible to seed the rows 12 inches apart. The rape tests were therefore seeded in single rows, $16\frac{1}{2}$ feet long, spaced 24 inches apart, with a single row of winter wheat between. A single protection row of rape was seeded at each end, and the whole test was surrounded by a double row of winter wheat. Five rape varieties were included in each test and each variety was replicated four times.



Map showing location of tests in 1959.



PLAN OF TEST

The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of winter wheat. Oat and barley tests were laid out in a similar manner. Rape tests were seeded in single instead of double rows, spaced 24 inches apart, but with single rows of winter wheat seeded between. A two-foot pathway was left between the test and the surrounding field.

FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

Growing conditions in Saskatchewan vary considerably from year to year and this factor has an important influence on varietal performance. Therefore, when comparing varieties it is advisable to consider their performance over a period of several years. For this reason, the section "Summarization According to Cereal Variety Zones" outlines yield results for a number of years where such results are available. Where reference is made to the rust resistance of a variety, this refers to the races of rust now prevalent. If a new strain of rust appears the variety may have little or no resistance to it. For example Thatcher was considered rust resistant until race 15-B appeared, but now it must be considered susceptible. In this section frequent reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. This Council meets in December of each year to consider the results of tests conducted over a period of years by the experimental farms in Saskatchewan, the University of Saskatchewan and the Saskatchewan Wheat Pool. On the basis of these tests official recommendations are made concerning the best varieties to be grown the following year. These recommendations are published in the pamphlet "Varieties of Grain Crops for Saskatchewan 1960." Copies of this pamphlet are distributed to elevator agents and are available on request from any Experimental Farm in the province, the University of Saskatchewan, the Saskatchewan Department of Agriculture or the Saskatchewan Wheat Pool.

Necessary Difference

"Necessary difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3 where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 25; Oats No. 38; Barley No. 62; Rape No. 68. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as difference in soil type, climatic conditions and date of seeding.

Summary by Cereal Variety Zones

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 48 and 49. Each zone represents an area in which conditions influencing plant growth are generally similar. While local conditions may vary considerably within the zone, in general the average yield results can be considered to represent the performance of the varieties for that zone.

Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the

grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

BL.—Bleached	St.—Starchy
Dk.G.—Dark Green	W.—Weather Stained
F.—Frozen	(A)—Insufficient grain to determine bushel weight.
G.—Green Kernels	(E)—Estimated Grade
I.—Immature	

RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by cereal variety zones for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1—AVERAGE MONTHLY RAINFALL IN INCHES
DURING THE PERIOD MAY-AUGUST
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	May	June	July	August	Total
1A.....	.60	3.82	.99	.65	5.82
1B.....	.92	4.07	1.21	1.09	6.90
1C.....	.74	3.51	.48	.45	4.63
1D.....	.86	3.04	1.01	1.17	5.79
2A.....	1.06	4.09	1.24	1.42	7.55
2B.....	.55	4.00	.80	.89	6.09
2C.....	.18	4.14	1.66	1.00	6.98
2D.....	.60	3.02	.81	1.36	5.39
2E.....	.42	3.97	1.02	.60	5.73
3A.....	1.40	2.90	1.34	1.32	6.70
3B.....	.87	3.77	1.62	1.54	7.42
3C.....	.52	3.83	.55	1.01	5.42
3D.....	.50	3.97	.94	1.58	6.45
3E.....	.74	3.16	1.69	3.50	8.23
3F.....	.47	3.78	1.79	3.08	8.19
3G.....	.86	2.37	1.03	2.30	6.13
3H.....	1.06	2.84	2.48	4.93	11.32
3J.....	.44	2.87	.84	2.26	5.73
4A.....	.39	3.48	1.60	1.65	7.08
4B.....	.74	2.70	1.47	2.39	7.32

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.

REVIEW OF THE 1959 SEASON

The year 1959 was, for most grain farmers, both a year of hope and of disappointment, each occurring in different areas at different times of the year. In the spring the southern and south-western part of the province was extremely dry and windy, while most of the northern and north-eastern portion had very good moisture conditions. During the early part of the summer the crops prospered in the north while those in the south existed on a very minimum of moisture. Some districts suffered crop damage from cut-worms, grasshoppers and hail but damage from these causes was not widespread. Timely rains occurred in late June over most of the province, but during July and August crop conditions steadily declined. Taking the province as a whole the 1959 crop was slightly higher than the long term average. Harvest conditions in early fall were almost ideal and in the southern part of the province most of the crop was harvested without interruption. However in northern areas the harvest was halted repeatedly by rain and snow, with the result that approximately one quarter of Saskatchewan's crop lay out in the fields over winter.

WHEAT TESTS

A total of 130 wheat tests were seeded in 1959. Each test contained the five varieties Thatcher, Canthatch, Selkirk, Pembina and Lake.

DESCRIPTION OF VARIETIES

NOTE—For a report of the official recommendations and the yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" beginning on page 12.

Thatcher is included in these tests as the standard of comparison. It was developed in 1921 at the University of Minnesota from the cross (Marquis X Iumillo) X (Marquis X Kanred). Thatcher is drought resistant and high in milling and baking quality. It is resistant to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, to stem rust and to covered smut.

Canthatch (included in these tests under the number RL 2936) was developed at Winnipeg by the Canada Department of Agriculture and licensed for commercial distribution in November 1959. It is very similar to Thatcher in appearance and growth characteristics but has added stem rust resistance. However it is susceptible to leaf rust.

Selkirk was developed at the Laboratory of Cereal Breeding at Winnipeg from crosses involving the varieties McMurachy, Exchange and Redman. It was licensed for commercial distribution in 1953. It is equal to Thatcher in maturity, straw strength and straw length. It is less resistant to shattering but more resistant to bleaching. Selkirk is resistant to stem rust, to loose and covered smut, and moderately resistant to leaf rust.

Pembina (included in these tests under the number RL 2814). This variety was developed at Winnipeg by the Canada Department of Agriculture and licensed for commercial distribution in November, 1959. It is similar to Selkirk but matures slightly earlier and has greater stem and leaf rust resistance.

Lake was developed at the Experimental Farm at Scott from the cross Regent X Canus. It was licensed for commercial distribution in 1954. It is later in maturity than Thatcher and has medium long, strong straw. Lake is less resistant to shattering than is Thatcher. It is resistant to covered smut, but susceptible to loose smut and to stem and leaf rust.

PERFORMANCE OF VARIETIES

**TABLE No. 2—AVERAGE YIELDS IN BUSHELS PER ACRE
SUMMARIZED BY CEREAL VARIETY ZONES**

Cereal** Variety Zone	No. of Satis- factory Tests	Thatcher	Canthatch	Selkirk	Pembina	Lake	Necessary Difference* in Bushels
1A.....	10	14.3	14.9	13.2	13.2	14.3	.73
1B.....	4	16.6	17.4	15.9	15.8	20.0	N.S.
1C.....	8	14.0	14.4	13.7	13.4	14.3	.59
1D.....	9	28.0	29.5	26.5	27.4	25.4	N.S.
2A.....	7	13.8	13.7	13.3	12.5	13.4	N.S.
2B.....	8	24.3	23.8	21.6	22.1	25.1	1.21
2D.....	9	21.0	21.0	20.2	20.1	22.5	.79
2E.....	4	20.3	20.8	17.0	17.2	19.1	N.S.
3A.....	6	26.1	25.7	25.2	26.0	24.7	1.12
3B.....	3	31.0	30.6	28.5	30.3	26.7	N.S.
3C.....	11	29.0	29.1	26.7	27.3	27.9	1.17
3D.....	5	44.9	45.8	42.4	43.6	42.4	N.S.
3E.....	3	19.2	18.8	17.1	17.1	19.2	N.S.
3G.....	2	16.5	16.2	13.2	14.9	12.8	N.S.
3F.....	5	37.5	37.7	37.9	36.2	34.2	2.40
3J.....	2	24.7	24.1	25.2	23.3	25.7	N.S.
4A.....	2	43.5	44.6	44.4	42.8	44.2	N.S.

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone.

N.S.—Yield differences not significant.

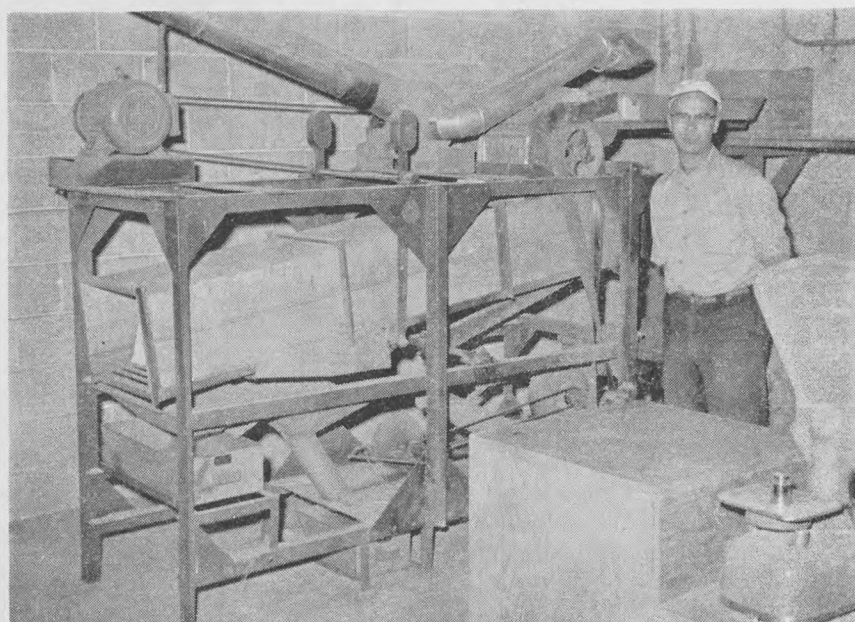
**See zone map, page 49.

Table No. 2. The five varieties tested in 1959 proved to be remarkably similar in yield. It should be noted that in 10 of the 17 zones the yield differences among varieties were not statistically significant. In nearly all parts of the province, **Thatcher** and **Canthatch** were virtually equal in yield. **Selkirk** and **Pembina** were also quite similar in yield. **Lake** yielded well in western and north-western zones, but was not outstanding in eastern Saskatchewan.

TABLE No. 3—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Canthatch	Selkirk	Pembina	Lake
1A.....	103.8	103.8	103.7	104.4	105.0
1B.....	98.5	97.0	99.5	96.5	103.5
1C.....	98.0	98.0	100.0	98.5	100.0
1D.....	102.8	104.1	103.4	102.1	105.4
2A.....	95.5	95.3	94.5	95.3	96.3
2B.....	109.6	110.6	109.6	110.6	111.0
2D.....	101.7	102.2	102.5	102.5	102.3
2E.....	89.0	91.8	89.0	89.0	92.8
3A.....	91.0	88.7	89.0	86.3	94.0
3C.....	98.6	99.8	99.0	98.8	100.8
3D.....	99.3	100.0	99.8	98.8	101.0
3E.....	127.0	126.0	128.0	127.0	127.0
3F.....	102.0	101.7	102.3	98.7	106.3
3G.....	93.0	96.0	98.0	93.0	91.0
3H.....	121.0	119.0	122.0	120.0	131.0
3J.....	110.0	111.0	111.0	111.0	112.0
4A.....	101.5	101.5	103.0	101.0	100.0

Table No. 3. On an average, throughout the province **Pembina** ripened earliest of the five varieties tested. On an average basis **Thatcher** placed second, **Canthatch** placed third and **Selkirk** placed fourth. In most cases these three varieties differed only slightly in time of ripening. **Lake** was generally several days later maturing than the other four varieties.



This threshing machine and the scale at right were used to determine yields from the tests.

**TABLE No. 4—AVERAGE HEIGHT OF PLANTS IN INCHES
SUMMARIZED BY CEREAL VARIETY ZONES**

Cereal Variety Zone	Thatcher	Canthatch	Selkirk	Pembina	Lake
1A.....	24.5	24.1	24.7	23.1	26.8
1B.....	24.7	24.7	25.0	24.0	26.3
1C.....	22.6	22.8	24.0	22.2	24.6
1D.....	25.6	26.3	25.9	25.6	27.3
2A.....	20.4	20.4	20.8	19.8	21.4
2B.....	24.2	23.2	25.0	22.0	26.3
2D.....	26.8	26.1	27.3	25.8	28.1
2E.....	19.0	19.5	20.5	19.0	20.5
3A.....	27.7	27.7	27.7	26.8	29.7
3B.....	29.0	29.0	29.0	29.0	30.0
3C.....	31.0	30.0	30.3	29.7	31.9
3D.....	32.6	32.2	31.0	31.4	33.8
3E.....	26.0	25.5	25.5	25.5	26.5
3F.....	36.7	35.0	36.0	34.0	39.0
3G.....	16.0	17.0	16.0	17.5	16.0
3H.....	36.0	35.0	37.0	36.0	39.0
3J.....	29.5	30.0	30.0	27.5	31.5
4A.....	34.0	34.0	33.0	31.0	38.0
4B.....	28.0	27.0	27.0	26.0	27.0

Table No. 4. **Pembina** had on an average, the shortest straw of the five varieties tested. On an average basis **Canthatch** placed second, **Thatcher** placed third and **Selkirk** placed fourth. In most zones only slight differences were reported among these four varieties but **Lake** was consistently taller than the others.

**TABLE No. 5—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS
1 (STRONG) to 9 (WEAK)**

SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Canthatch	Selkirk	Pembina	Lake
1A.....	2.9	3.3	2.9	3.2	3.0
1B.....	2.1	2.5	2.1	3.1	2.6
1C.....	2.4	2.3	2.0	2.7	1.9
1D.....	2.7	2.9	3.0	2.5	2.9
2A.....	1.5	1.9	1.4	2.0	2.4
2B.....	2.5	2.6	2.1	3.0	2.1
2D.....	2.2	2.2	2.6	2.7	2.5
2E.....	2.1	2.0	2.7	2.7	1.7
3A.....	3.6	3.9	3.4	3.9	4.1
3B.....	2.8	2.6	1.7	3.0	2.0
3C.....	1.7	1.8	1.6	2.1	1.9
3D.....	2.7	2.4	1.9	2.4	1.8
3E.....	2.2	1.9	2.3	2.1	1.5
3F.....	2.6	2.6	2.3	2.6	2.7
3G.....	2.0	2.0	2.0	2.0	2.0
3H.....	1.0	2.0	1.5	2.0	1.0
3J.....	2.8	2.4	2.4	3.8	1.7
4A.....	3.0	3.8	3.6	2.4	3.4
4B.....	1.5	1.8	1.3	1.5	1.8

Table No. 5. None of the varieties included in 1959 tests showed any serious weakness of straw. On an average basis **Selkirk** showed the greatest straw strength. **Thatcher** placed second on an average basis and **Lake** placed third. **Canthatch** and **Pembina** placed fourth and fifth respectively.

**TABLE No. 6—AVERAGE WEIGHT PER MEASURED BUSHEL
SUMMARIZED BY CEREAL VARIETY ZONES**

Cereal Variety Zone	Thatcher	Canthatch	Selkirk	Pembina	Lake
1A.....	57.9	58.4	55.4	56.6	57.2
1B.....	61.3	61.5	60.0	60.5	60.5
1C.....	58.7	59.4	57.1	58.4	57.7
1D.....	61.1	61.8	59.3	60.0	60.3
2A.....	58.4	58.9	56.3	56.6	58.1
2B.....	61.1	61.4	59.0	60.3	59.1
2D.....	59.2	59.4	57.1	58.0	57.9
2E.....	61.3	61.8	59.3	59.8	60.3
3A.....	59.5	60.2	58.3	59.2	58.2
3B.....	60.7	60.7	58.0	59.3	58.0
3C.....	60.5	61.4	58.7	59.7	60.1
3D.....	62.4	62.8	61.0	62.6	61.2
3E.....	60.3	60.0	59.0	59.7	60.0
3F.....	61.8	62.0	60.4	61.6	60.4
3G.....	60.5	62.0	59.5	60.5	61.0
3H.....	61.0	61.0	61.0	61.0	58.0
3J.....	60.5	61.0	59.0	59.5	60.0
4A.....	61.0	61.0	61.0	61.0	60.5
4B.....	59.0	61.0	57.0	61.0	59.0

Table No. 6. Samples of **Canthatch** outweighed samples of the other four varieties in nearly all zones throughout the province. On an average basis **Thatcher** placed second, followed by **Pembina**. **Lake** placed fourth on an average basis and **Selkirk** had quite consistently lower bushel weight than the other four varieties tested.

TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	4 Sp. %	No. 5 %	No. 5 Sp. %	No. 6 %	No. 6 Sp. %	Fd. %
Thatcher.....	12.8	45.9	23.9	6.4	4.6	2.8	.9	—	1.8	.9
Canthatch.....	13.8	45.0	22.9	11.0	.9	1.8	2.8	.9	—	.9
Selkirk.....	—	33.8	33.0	11.0	8.3	5.5	2.8	.9	1.8	2.8
Pembina.....	2.8	43.0	30.3	9.2	8.3	2.8	—	—	1.8	1.8
Lake.....	3.7	34.9	33.9	9.2	3.7	7.3	1.8	.9	1.8	2.8

Table No. 7. As might be expected from the bushel weights of the varieties there was considerable difference in grades of the samples. **Canthatch** graded highest with nearly 14 percent of the samples falling in grade One Northern. **Thatcher** was slightly lower with nearly 13 percent of the samples falling in this grade. The percentage of samples of **Lake** and **Pembina** falling in the top grade were nearly equal but if the two highest grades are considered **Pembina** appears the better of the two. **Selkirk**, which was consistently lower in bushel weight, was also noticeably lower in grade than the other four varieties tested.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Throughout the grain growing area of Saskatchewan there are wide differences in soil and climatic conditions which affect the performance of varieties. With these differences in mind Cereal Variety Zones have been drawn. Within each of these zones growing conditions are generally similar and varieties can be expected to give a similar response. These tests have been grouped according to Cereal Variety Zones and the following tables report the average results of all those tests located within each zone. Because there are local variations within each zone which affect individual tests, the average results of all tests in the zone can be expected to be more reliable than those of an individual test.

It is a well known fact that there are wide variations in growing conditions in Saskatchewan from year to year, and these variations have an



Dennis Reesor is standing between the rows of his wheat test at Lake Valley.



Alain Thomas is shown standing in front of his wheat test at St. Brieux.

influence on the performance of grain varieties. For this reason, reference is made in the following section to the results of tests conducted over a period of years, where this information is available.

In each zone reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. These recommendations are made on the basis of tests carried on over a period of years by the Experimental Farms, the University of Saskatchewan, and the Saskatchewan Wheat Pool.

Table No. 8—Summarized Results for Zone 1A
(10 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*.....	14.3	14.9	13.2	13.2	14.3
Days from seeding to ripening.....	103.8	103.8	103.7	104.4	105.0
Height of plants in inches.....	24.5	24.1	24.7	23.1	26.8
Straw strength (basis 1—strong to 9—weak).....	2.9	3.3	2.9	3.2	3.0
Bushel weight in pounds.....	57.9	58.4	55.4	56.6	57.2
Commercial grades in percentage: 1 Nor.....	21.5	21.4	—	—	—
2 Nor.....	42.9	42.9	28.6	35.7	42.9
3 Nor.....	7.1	7.1	28.6	28.6	14.3
4 Nor.....	—	14.3	7.2	7.1	21.4
4 Sp.....	14.3	—	7.1	14.3	7.1
5 Sp.....	7.1	14.3	7.1	—	—
6 Sp.....	7.1	—	7.1	7.2	14.3
Fd.....	—	—	14.3	7.1	—

*Necessary difference—.73 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Canthatch outyielded the other four varieties in this zone in its first year of testing by the Wheat Pool. It has yielded well in other tests in this area and because of its close similarity to Thatcher it is officially recommended for the zone.

Thatcher and Lake yielded equally well in this zone in 1959, although in previous years' tests Thatcher has quite consistently outyielded Lake. Thatcher is officially recommended for the zone.

Selkirk and Pembina yielded equally well in this zone in 1959. While Selkirk is generally lower in yield than the other recommended varieties in this zone, it is officially recommended for the areas where rust is a problem. Pembina was tested by the Wheat Pool for the first time in 1959. It is not recommended for the zone.

In addition to the varieties mentioned above, Chinook is also officially recommended.

Table No. 9—Summarized Results for Zone 1B
(4 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*.....	16.6	17.4	15.9	15.8	20.0
Days from seeding to ripening.....	98.5	97.0	99.5	96.5	103.5
Height of plants in inches.....	24.7	24.7	25.0	24.0	26.3
Straw strength (basis 1—strong to 9—weak).....	2.1	2.5	2.1	3.1	2.6
Bushel weight in pounds.....	61.3	61.5	60.0	60.5	60.5
Commercial grades in percentages: 1 Nor.....	50.0	50.0	—	25.0	25.0
2 Nor.....	50.0	50.0	75.0	75.0	50.0
3 Nor.....	—	—	25.0	—	25.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

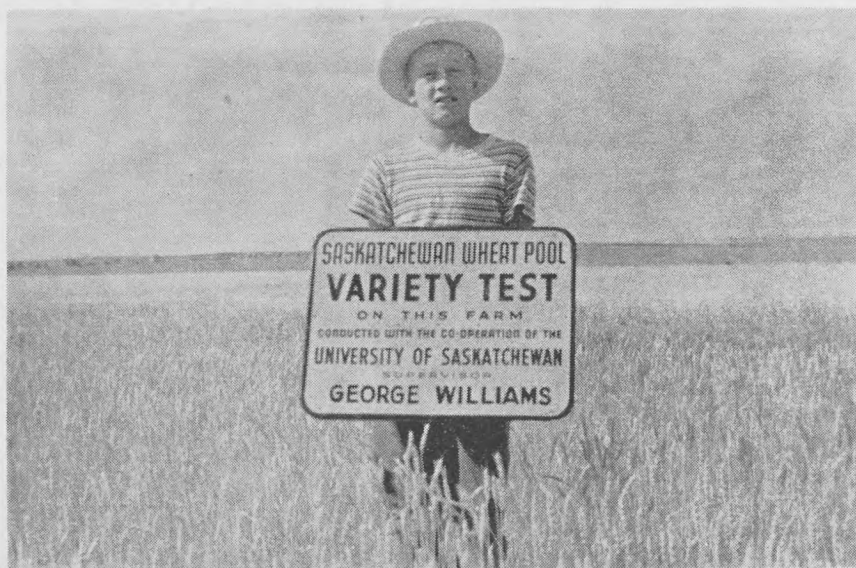
Lake placed first in yield in this zone in 1959 although it should be noted that none of the yield differences were statistically significant. In previous years Lake has been outyielded by other varieties in this zone. It is not officially recommended.

Canthatch placed second in yield in its first year of testing by the Wheat Pool. It is quite similar to Thatcher and is generally adapted to the same area as Thatcher. Canthatch is officially recommended for zone 1B.

Thatcher placed third in yield although only slightly lower than **Canthatch**. It placed first in 1956 and 1958, and placed second in 1957. **Thatcher** is officially recommended for the zone.

Selkirk and **Pembina** were nearly equal in yield in this zone in 1959. Since rust is not a serious hazard in this area, neither of these varieties is officially recommended for the zone.

In addition to the recommended varieties mentioned above, the sawfly resistant varieties **Rescue** and **Chinook** are officially recommended.



George Williams of White Bear appears proud of his test.

Table No. 10—Summarized Results for Zone 1C
(8 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	14.0	14.4	13.7	13.4	14.3
Days from seeding to ripening.....	98.0	98.0	100.0	98.5	100.0
Height of plants in inches.....	22.6	22.8	24.0	22.2	24.6
Straw strength (basis 1—strong to 9—weak).....	2.4	2.3	2.0	2.7	1.9
Bushel weight in pounds.....	58.7	59.4	57.1	58.4	57.7
Commercial grades in percentages:					
1 Nor.....	10.0	20.0	—	—	—
2 Nor.....	30.0	30.0	30.0	50.0	30.0
3 Nor.....	40.0	20.0	10.0	20.0	40.0
4 Nor.....	—	20.0	30.0	10.0	—
4 Sp.....	10.0	—	10.0	10.0	—
No. 5.....	—	—	—	—	10.0
5 Sp.....	—	10.0	10.0	—	20.0
6 Sp.....	10.0	—	10.0	10.0	—

*Necessary difference—.59 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Yields of the five varieties tested in this zone in 1959 were remarkably similar. Only one bushel per acre separated the highest yielding variety from the lowest.

Canthatch ranked first in yield. Because of its close similarity to **Thatcher** and its good performance in other tests in this zone it is officially recommended.

Lake placed second in this zone in 1959. In 1955 it yielded well but in both 1956 and 1957 it was outyielded by **Thatcher**. It is somewhat later maturing than **Thatcher** and is not officially recommended for the zone.

Thatcher placed third in this zone in 1959. It placed third in the previous year and ranked first in both 1956 and 1957. It is well adapted to this area and is officially recommended.

Selkirk and **Pembina** placed fourth and fifth respectively in 1959. Since rust resistance is not important in this area they are not officially recommended.

In addition to the recommended varieties mentioned above, the sawfly resistant variety **Chinook** is also recommended.

Table No. 11—Summarized Results for Zone 1D
(9 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	28.0	29.5	26.5	27.4	25.4
Days from seeding to ripening	102.8	104.1	103.4	102.1	105.4
Height of plants in inches	25.6	26.3	25.9	25.6	27.3
Straw strength (basis 1—strong to 9—weak)	2.7	2.9	3.0	2.5	2.9
Bushel weight in pounds	61.1	61.8	59.3	60.0	60.3
Commercial grades in percentages:					
1 Nor.	18.2	18.2	—	9.1	9.1
2 Nor.	72.7	72.7	72.7	63.6	54.5
3 Nor.	—	—	9.1	9.1	18.2
4 Nor.	9.1	9.1	9.1	9.1	9.1
No. 5	—	—	9.1	9.1	9.1

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Canthatch outyielded the other four varieties tested in this zone in 1959. It has not been previously tested by the Wheat Pool but has yielded well in other tests in this zone and is officially recommended.

Thatcher placed second in yield in this zone in 1959. It placed third in 1958, first in 1957 and second in 1956. Thatcher is officially recommended for the zone.

Pembina placed third in yield in 1959, its first year of testing by the Wheat Pool. It appears to be lower in yield than Thatcher in this area and since rust resistance is not required in this area it is not officially recommended.

Selkirk placed fourth in this zone in 1959. Like Pembina, it is generally lower in yield than Thatcher and since rust resistance is not required in this area Selkirk is not officially recommended.

Lake was outyielded by the other four varieties tested in 1959. It placed fourth in each of the two previous years but placed second in 1955. It has yielded well in other tests in this area and is officially recommended for the zone.

In addition to the recommended varieties mentioned above, **Chinook** is officially recommended and **Rescue** is recommended for sawfly control only.

Table No. 12—Summarized Results for Zone 2A
(7 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	13.8	13.7	13.3	12.5	13.4
Days from seeding to ripening	95.5	95.3	94.5	95.3	96.3
Height of plants in inches	20.4	20.4	20.8	19.8	21.4
Straw strength (basis 1—strong to 9—weak)	1.5	1.9	1.4	2.0	2.4
Bushel weight in pounds	58.4	58.9	56.3	56.6	58.1
Commercial grades in percentages:					
1 Nor.	14.3	14.3	—	—	—
2 Nor.	42.8	42.8	42.9	28.5	28.6
3 Nor.	28.6	28.6	14.3	28.6	57.1
4 Sp.	14.3	14.3	28.5	42.9	14.3
5 Sp.	—	—	14.3	—	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

The yield differences of the five varieties tested in this zone were small and in no case were they statistically significant.

Thatcher, **Canthatch** and **Lake** placed first, second and third respectively in this zone in 1959, but since none of these varieties is resistant to leaf rust, they are not recommended for this zone.

Selkirk placed fourth in this zone in 1959. In rust-free seasons Selkirk is often outyielded by Thatcher in this zone but because of the prevalence of rust in this area Selkirk is a much more reliable variety. It is officially recommended for the zone.

Pembina placed fifth in yield in its first year of testing by the Wheat Pool. However, due to its resistance to stem and leaf rust it is officially recommended for this zone.

Table No. 13—Summarized Results for Zone 2B
(8 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	24.3	23.8	21.6	22.1	25.1
Days from seeding to ripening	109.6	110.6	109.6	110.6	111.0
Height of plants in inches	24.2	23.2	25.0	22.0	26.3
Straw strength (basis 1—strong to 9—weak)	2.5	2.6	2.1	3.0	2.1
Bushel weight in pounds	61.1	61.4	59.0	60.3	59.1
Commercial grades in percentages:					
1 Nor.	25.0	25.0	—	—	12.5
2 Nor.	37.5	37.5	50.0	62.5	37.5
3 Nor.	25.0	25.0	25.0	25.0	25.0
4 Nor.	12.5	12.5	12.5	12.5	12.5
No. 5	—	—	12.5	—	12.5

*Necessary difference—1.21 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Lake placed first in yield in this zone in 1959. It placed third in 1957, fourth in 1956 and second in 1955. Lake has not yielded consistently well in this area and is not officially recommended.

Thatcher placed second in this zone in 1959. It was the highest yielding variety in both 1957 and 1958. Thatcher is officially recommended for the zone.

Canthatch placed third in this zone in its first year of testing by the Wheat Pool. It is very similar to Thatcher and since it has greater stem rust resistance, it is officially recommended for the zone.

Pembina placed fourth in yield in its first year of testing by the Wheat Pool. It has yielded reasonably well in other tests in this zone. Since the eastern part of zone 2B is frequently subject to rust damage, Pembina is officially recommended for this zone.

Selkirk placed fifth in this zone in 1959. Its relative position in previous years was somewhat better. As mentioned above a part of this zone is often subject to rust damage and for this reason Selkirk is officially recommended.

In addition to the recommended varieties mentioned above the sawfly resistant variety Chinook is also officially recommended.



Limited rainfall and some hail damage resulted in a rather thin stand of wheat in Wally Antifave's test at Langham.

Cereal Variety Zone 2C

Only one successful wheat test was located in this small zone in 1959. It was conducted by William Friesen of Wymark and can be found in the section "Individual Summarized Results of All Tests—Wheat" on Page 25.

Thatcher and Canthatch are officially recommended for this zone, and Rescue is recommended only for sawfly control.

Table No. 14—Summarized Results for Zone 2D
(9 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	21.0	21.0	20.2	20.1	22.5
Days from seeding to ripening	101.7	102.2	102.5	102.5	102.3
Height of plants in inches	26.8	26.1	27.3	25.8	28.1
Straw strength (basis 1—strong to 9—weak)	2.2	2.2	2.6	2.7	2.5
Bushel weight in pounds	59.2	59.4	57.1	58.0	57.9
Commercial grades in percentages:					
1 Nor	30.0	30.0	—	10.0	10.0
2 Nor	40.0	40.0	30.0	40.0	30.0
3 Nor	20.0	20.0	30.0	30.0	50.0
4 Nor	—	—	20.0	—	—
4 Sp	—	—	10.0	10.0	—
Fd	10.0	10.0	10.0	10.0	10.0

*Necessary difference—.79 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Lake outyielded the other four varieties tested in this zone in 1959. It placed first in 1957 and third in each of the two previous years. Lake is well adapted to this area and is officially recommended.

Thatcher and Canthatch yielded equally well in this zone in 1959. Thatcher has a long record of high yields in this zone. These two varieties are very similar except for stem rust resistance and both are officially recommended for the zone.

Selkirk and Pembina placed fourth and fifth, respectively in 1959. In previous year's tests Selkirk has not produced outstanding yields in this zone. Since rust resistance is not required in this area, neither variety is recommended.

In addition to the recommended varieties mentioned above, the sawfly resistant variety Chinook is also officially recommended.

Table No. 15—Summarized Results for Zone 2E
(4 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	20.3	20.8	17.0	17.2	19.1
Days from seeding to ripening	89.0	91.8	89.0	89.0	92.8
Height of plants in inches	19.0	19.5	20.5	19.0	20.5
Straw strength (basis 1—strong to 9—weak)	2.1	2.0	2.7	2.7	1.7
Bushel weight in pounds	61.3	61.8	59.3	59.8	60.3
Commercial grades in percentages:					
2 Nor	100.0	100.0	75.0	75.0	50.0
3 Nor	—	—	—	—	50.0
4 Nor	—	—	—	25.0	—
4 Sp	—	—	25.0	—	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Under rust-free conditions which existed in this zone in 1959 the five varieties yielded in the following order: Canthatch, Thatcher, Lake, Pembina, Selkirk. However, this zone is one in which stem and leaf rust can be expected to occur quite frequently. For this reason only the rust resistant varieties Pembina and Selkirk can be officially recommended for this zone.

Table No. 16—Summarized Results for Zone 3A
(6 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	26.1	25.7	25.2	26.0	24.7
Days from seeding to ripening	91.0	88.7	89.0	86.3	94.0
Height of plants in inches	27.7	27.7	27.7	26.8	29.7
Straw strength (basis 1—strong to 9—weak)	3.6	3.9	3.4	3.9	4.1
Bushel weight in pounds	59.5	60.2	58.3	59.2	58.2
Commercial grades in percentages:					
2 Nor	66.6	66.6	50.0	66.6	66.6
3 Nor	—	16.7	16.7	—	16.7
4 Nor	16.7	16.7	16.7	16.7	—
4 Sp	16.7	—	16.6	16.7	16.7

*Necessary difference—1.12 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

As mentioned in the discussion of Zone 2E above, the placing of varieties under rust free conditions in 1959 does not indicate the value of these varieties for an area where rust can be expected frequently. The only varieties officially recommended for Zone 3A are **Pembina** and **Selkirk**, both of which are rust resistant.



James E. Lorette, Fertile conducted a test in 1959.

Table No. 17—Summarized Results for Zone 3B
(3 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	31.0	30.6	28.5	30.3	26.7
Days from seeding to ripening	—	—	—	—	—
Height of plants in inches	29.0	29.0	29.0	29.0	30.0
Straw strength (basis 1—strong to 9—weak)	2.8	2.6	1.7	3.0	2.0
Bushel weight in pounds	60.7	60.7	58.0	59.3	58.0
Commercial grades in percentages:					
2 Nor	33.4	33.4	—	—	—
3 Nor	33.3	33.3	66.7	66.7	66.7
4 Nor	33.3	33.3	—	33.3	—
No. 5	—	—	33.3	—	33.3

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

The year 1959 was somewhat unusual in that this area was almost free from rust. Under these conditions the rust susceptible varieties **Canthatch**, and **Thatcher** yielded well, but they cannot be considered as reliable varieties for use in this area. The rust resistant varieties **Pembina** and **Selkirk** are the only ones officially recommended for Zone 3B.

Table No. 18—Summarized Results for Zone 3C
(11 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	29.0	29.1	26.7	27.3	27.9
Days from seeding to ripening	98.6	99.8	99.0	98.8	100.8
Height of plants in inches	31.0	30.0	30.3	29.7	31.9
Straw strength (basis 1—strong to 9—weak)	1.7	1.8	1.6	2.1	1.9
Bushel weight in pounds	60.5	61.4	58.7	59.7	60.1
Commercial grades in percentages: 2 Nor	81.8	72.7	18.2	54.5	54.5
3 Nor	9.1	27.3	63.6	36.4	36.4
4 Nor	9.1	—	—	—	—
4 Sp	—	—	18.2	9.1	9.1

*Necessary difference—1.17 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

The situation mentioned in discussion of Zone 3B above applies equally to Zone 3C. While **Canthatch**, **Thatcher** and **Lake** yielded well in 1959, the hazard of rust in this area is too great for them to be considered useful varieties. Only the rust resistant varieties **Pembina** and **Selkirk** are officially recommended for Zone 3C.

Table No. 19—Summarized Results for Zone 3D
(5 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	44.9	45.8	42.4	43.6	42.4
Days from seeding to ripening	99.3	100.0	99.8	98.8	101.0
Height of plants in inches	32.6	32.2	31.0	31.4	33.8
Straw strength (basis 1—strong to 9—weak)	2.7	2.4	1.9	2.4	1.8
Bushel weight in pounds	62.4	62.8	61.0	62.6	61.2
Commercial grades in percentages: 2 Nor	20.0	20.0	—	—	—
3 Nor	40.0	40.0	60.0	80.0	60.0
4 Nor	20.0	20.0	—	20.0	—
No. 5	20.0	20.0	40.0	—	20.0
Fd	—	—	—	—	20.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Canthatch placed first in yield in this zone in 1959, although none of the yield differences were large enough to be statistically significant. **Canthatch** has not been tested previously by the Wheat Pool. Because of its favorable performance in other tests and its similarity to **Thatcher**, which is well adapted to this area, **Canthatch** is officially recommended for the zone.

Thatcher placed second in this zone in 1959. It placed either first or second in each of the previous four years. **Thatcher** is officially recommended for this zone.

Pembina placed third in this zone in its first year of testing by the Wheat Pool. It has yielded well in other tests in this zone and is officially recommended.

Selkirk and **Lake** yielded equally well in this zone in 1959. However, **Selkirk** outyielded **Lake** in two of the previous three years. Because of the yield advantage in favor of **Selkirk** and the later maturity of **Lake**, **Selkirk** is officially recommended for the zone but **Lake** is not.

Table No. 20—Summarized Results for Zone 3E
(3 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	19.2	18.8	17.1	17.1	19.2
Days from seeding to ripening	127.0	126.0	128.0	127.0	127.0
Height of plants in inches	26.0	25.5	25.5	25.5	26.5
Straw strength (basis 1—strong to 9—weak)	2.2	1.9	2.3	2.1	1.5
Bushel weight in pounds	60.3	60.0	59.0	59.7	60.0
Commercial grades in percentages: 3 Nor.	100.0	66.7	66.7	100.0	33.3
4 Nor.	—	33.3	33.3	—	33.3
No. 5	—	—	—	—	33.4

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Thatcher and **Lake** tied for first place in this zone in 1959. Both have yielded well in this zone for a number of years. They appear well adapted to this area and both are officially recommended.

Canthatch yielded only slightly less than the above mentioned varieties in its first year of testing by the Wheat Pool. It has yielded well in other tests in this zone, and because of its similarity to Thatcher, it is officially recommended.

Pembina and **Selkirk** yielded equally well in this zone in 1959. Pembina has not been previously tested by the Wheat Pool but in other tests does not appear particularly adapted to this area. Selkirk placed third in 1958, fourth in 1957 and first in 1956. It is not officially recommended for the zone.



Dorothy Ashley of Mantario is shown standing at the corner of her wheat plot early in the season.

Table No. 21—Summarized Results for Zone 3F
(5 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	37.5	37.7	37.9	36.2	34.2
Days from seeding to ripening	102.0	101.7	102.3	98.7	106.3
Height of plants in inches	36.7	35.0	36.0	34.0	39.0
Straw strength (basis 1—strong to 9—weak)	2.6	2.6	2.3	2.6	2.7
Bushel weight in pounds	61.8	62.0	60.4	61.6	60.4
Commercial grades in percentages: 2 Nor.	—	—	—	20.0	—
3 Nor.	80.0	60.0	60.0	60.0	20.0
4 Nor.	—	20.0	20.0	—	40.0
No. 5	20.0	—	—	20.0	20.0
No. 6	—	20.0	20.0	—	—
Fd.	—	—	—	—	20.0

*Necessary difference—2.40 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Selkirk outyielded the other four varieties in this zone in 1959. It placed second in 1956 and 1958, third in 1955 and fifth in 1957. It has yielded well in other tests in this area and is officially recommended for the zone.

Canthatch placed second in this zone in its first year of testing by the Wheat Pool. It yielded well in other tests and because of its similarity to Thatcher, it is officially recommended for the zone.

Thatcher placed third in this zone in 1959. It has yielded well in this zone for a number of years. Thatcher is officially recommended for this zone.

Pembina placed fourth in this zone in its first year of testing by the Wheat Pool. However, it has yielded well in other tests and is officially recommended for the zone.

Lake was outyielded by the other four varieties tested in this zone in 1959. Its performance in this zone in recent years has been rather variable, and its late maturity is a disadvantage in this area.

Table No. 22—Summarized Results for Zone 3G

(2 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	16.5	16.2	13.2	14.9	12.8
Days from seeding to ripening	93.0	96.0	98.0	93.0	91.0
Height of plants in inches	16.0	17.0	16.0	17.5	16.0
Straw strength (basis 1—strong to 9—weak)	2.0	2.0	2.0	2.0	2.0
Bushel weight in pounds	60.5	62.0	59.5	60.5	61.0
Commercial grades in percentages: 2 Nor.	50.0	50.0	50.0	50.0	50.0
4 Nor.	50.0	50.0	50.0	50.0	50.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Thatcher outyielded the other four varieties in this zone in 1959. It ranked first in 1955, second in 1956 and 1958 and tied for second place in 1957. Thatcher appears well adapted to the area and is officially recommended.

Canthatch placed second in this zone in its first year of testing by the Wheat Pool. It has yielded well in other tests in this zone and because of its similarity to Thatcher it can be expected to be well adapted to the area. It is officially recommended.

Pembina placed third in this zone in its first year of testing by the Wheat Pool.

Selkirk placed fourth in this zone in 1959. Its performance in Wheat Pool tests in this zone has been rather variable but in other tests it has yielded quite well. It is officially recommended for the zone.

Lake placed fifth in this zone in 1959. It placed third in 1956 and 1958 and tied for second place in 1957. Lake is officially recommended for the zone.

Cereal Variety Zone 3H

Only one successful wheat test was located in this small zone in 1959. It was conducted by Ralph Kyle of Dorintosh and can be found in the section "Individual Summarized Results of All Tests—Wheat" on Page 35.

Canthatch, Lake, Selkirk and Thatcher are officially recommended for the zone.

Table No. 23—Summarized Results for Zone 3J

(2 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	24.7	24.1	25.2	23.3	25.7
Days from seeding to ripening	110.0	111.0	111.0	111.0	112.0
Height of plants in inches	29.5	30.0	30.0	27.5	31.5
Straw strength (basis 1—strong to 9—weak)	2.8	2.4	2.4	3.8	1.7
Bushel weight in pounds	60.5	61.0	59.0	59.5	60.0
Commercial grades in percentages: 2 Nor.	50.0	50.0	—	50.0	—
3 Nor.	50.0	50.0	100.0	50.0	50.0
4 Nor.	—	—	—	—	50.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3J

Lake placed first in yield in this zone in 1959. It placed third in 1956, the only other year for which results are available. Lake has yielded well in other tests in this zone and is officially recommended.

Selkirk placed second in this zone in 1959. Yield information is not available for 1957 and 1958, but in 1955 Selkirk placed third and in 1956 it placed second. It has yielded well in other tests in this zone and is officially recommended.

Thatcher placed third in this zone in 1959. It placed first in both 1955 and 1956. Thatcher is officially recommended for the zone.

Canthatch placed fourth in this zone in its first year of testing by the Wheat Pool. It closely resembles Thatcher, which is well adapted to this area. Canthatch is officially recommended for the zone.

Pembina was outyielded by the other four varieties in its first year of testing by the Wheat Pool. It is not recommended for the zone.

Table No. 24—Summarized Results for Zone 4A
(2 successful tests)

	Thatcher	Canthatch	Selkirk	Pembina	Lake
Yield in bushels per acre*	43.5	44.6	44.4	42.8	44.2
Days from seeding to ripening	101.5	101.5	103.0	101.0	100.0
Height of plants in inches	34.0	34.0	33.0	31.0	38.0
Straw strength (basis 1—strong to 9—weak)	3.0	3.8	3.6	2.4	3.4
Bushel weight in pounds	61.0	61.0	61.0	61.0	60.5
Commercial grades in percentages: 3 Nor.	100.0	100.0	100.0	100.0	50.0
4 Nor.	—	—	—	—	50.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Canthatch outyielded the other four varieties tested in this zone in 1959. It has not been tested previously by the Wheat Pool. It has yielded well in other tests and because of its close similarity to Thatcher which is well adapted to this zone, it is officially recommended.

Selkirk placed second in this zone in 1959. It placed first in 1956 and 1958, placed second in 1957 and third in 1955. It is officially recommended for the zone.

Lake placed third in this zone in 1959. In three previous year's tests it placed third in two years and first in one year. Lake is somewhat later maturing than several other varieties and is not recommended for this zone.

Thatcher placed fourth in this zone in 1959. In 1958 it placed fourth but it placed second in 1955 and 1956 and third in 1957. It has yielded well in other tests in this zone and is officially recommended.

Pembina placed fifth in this zone in its first year of testing by the Wheat Pool. However, it yielded well in other tests in this area and is officially recommended.

Cereal Variety Zone 4B

Only one successful wheat test was located in this zone in 1959. It was conducted by Johnny Duncan of Leask and can be found in the section "Individual Summarized Results of All Tests—Wheat" on Page 34. **Canthatch**, **Lake**, **Selkirk** and **Thatcher** are officially recommended for the zone.

Table No. 25

Individual Summarized Results of All Tests—Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks," see Page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RONALD E. REDPATH, GAINSBOROUGH									
3A.....	1	1	Thatcher.....	18.0	97	22	7.0	55	4 Sp. —
			Canthatch.....	17.5	90	22	7.0	56	4 Nor. —
			Selkirk.....	18.1	90	22	7.0	54	4 Sp. —
			Pembina.....	16.9	90	22	7.0	55	4 Sp. —
			Lake.....	18.9	97	22	7.0	54	4 Sp. —
Yield differences not significant. Rainfall—May to August 6.84 inches.									
ALLAN B. POTAPINSKI, ALIDA									
3A.....	1	2	Thatcher.....	19.7	—	23	—	60	2 Nor. 1.
			Canthatch.....	19.9	—	24	—	61	2 Nor. 1.
			Selkirk.....	19.8	—	28	—	58	3 Nor. 1.
			Pembina.....	20.0	—	24	—	59	2 Nor. —
			Lake.....	19.6	—	21	—	60	2 Nor. 1.
Yield differences not significant. Rainfall—May to August 6.74 inches.									
WAYNE A. COLLINS, OUTRAM									
2A.....	1	6	Thatcher.....	8.7	—	—	—	55	4 Sp. —
			Canthatch.....	8.5	—	—	—	55	4 Sp. —
			Selkirk.....	8.4	—	—	—	52	5 Sp. —
			Pembina.....	7.7	—	—	—	53	4 Sp. —
			Lake.....	8.5	—	—	—	57	3 Nor. —
Yield differences not significant. Rainfall—May to August 6.69 inches.									
DENNIS AND PALMER MELBY, HOFFER									
2A.....	1	7	Thatcher.....	15.8	96	22	1.5	57	3 Nor. —
			Canthatch.....	15.4	94	22	1.5	57	3 Nor. —
			Selkirk.....	14.6	95	23	1.0	54	4 Sp. —
			Pembina.....	14.4	95	21	2.5	55	4 Sp. —
			Lake.....	17.4	98	24	2.3	57	3 Nor. —
Yield differences not significant. Rainfall—May to August 8.69 inches.									
JULIAN A. RICHARD, FORGET									
2A.....	1	9	Thatcher.....	21.9	103	18	1.0	61	2 Nor. 1.
			Canthatch.....	23.9	103	20	3.0	62	2 Nor. 1.
			Selkirk.....	24.0	98	23	1.0	60	2 Nor. 1.
			Pembina.....	22.4	103	19	3.0	60	2 Nor. 1.
			Lake.....	21.1	101	24	5.0	60	2 Nor. 1.
Yield differences not significant. Rainfall—May to August 12.99 inches.									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
2A.....	1	5	David Hoffort, Benson.						
2A.....	1	8	Jim Braithwaite, Weyburn.						
3A.....	1	10	Richard Slykhuys, Carlyle.						

WHEAT POOL DISTRICT 2

DAVID E. BELLAVANCE, RADVILLE										
2A.....	2	1	Thatcher.....	4.9	—	16	1.0	59	2 Nor.	—
			Canthatch.....	3.8	—	14	1.0	60	2 Nor.	1.
			Selkirk.....	3.8	—	14	1.0	59	2 Nor.	—
			Pembina.....	2.3	—	14	1.0	57	3 Nor.	—
			Lake.....	4.1	—	14	1.0	61	3 Nor.	G., 1.
Necessary difference—1.49 bushels. Rainfall—May to August 7.10 inches.										

Wheat Pool District 2—Continued

Cereal Variety Zone	Sub- Dist.	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
JAMES D. S. KIMBALL, CEYLON										
2A.....	2	2	Thatcher.....	25.1	97	26	2.0	61	1 Nor.	—
			Canthatch.....	23.9	98	26	2.0	62	1 Nor.	—
			Selkirk.....	21.8	98	24	2.0	59	2 Nor.	—
			Pembina.....	22.4	97	25	2.0	60	2 Nor.	I.
			Lake.....	22.0	99	25	2.0	60	2 Nor.	I.
Necessary difference—2.16 bushels.				Rainfall—May to August 6.38 inches.						
RICHARD P. SCHOLZ, BIG BEAVER										
1A.....	2	3	Thatcher.....	3.8	—	—	—	51	5 Sp.	—
			Canthatch.....	3.7	—	—	—	51	5 Sp.	—
			Selkirk.....	3.7	—	—	—	47	Fd.	—
			Pembina.....	3.7	—	—	—	48	Fd.	—
			Lake.....	4.3	—	—	—	49	6 Sp.	—
Yield differences not significant.				Rainfall—May to August 6.23 inches.						
CLARENCE M. MONTGOMERY, WILLOW BUNCH										
1A.....	2	4	Thatcher.....	20.4	—	—	—	59	2 Nor.	—
			Canthatch.....	21.2	—	—	—	58	2 Nor.	—
			Selkirk.....	19.2	—	—	—	57	3 Nor.	—
			Pembina.....	19.2	—	—	—	57	3 Nor.	—
			Lake.....	23.1	—	—	—	57	3 Nor.	—
Necessary difference—2.71 bushels.				Rainfall—May to August 5.26 inches.						
JOHNNIE O. PITULEY JR., KILLDEER										
1C.....	2	5	Thatcher.....	—	—	15	1.3	A	6 Sp.	E.
			Canthatch.....	—	—	17	1.0	A	5 Sp.	E.
			Selkirk.....	—	—	16	1.0	A	6 Sp.	E.
			Pembina.....	—	—	17	2.3	A	6 Sp.	E.
			Lake.....	—	—	15	1.0	A	5 Sp.	E.
Test damaged by grasshoppers—yields not reliable.				Rainfall—May to August 5.40 inches.						
GARRY F. BARNSLEY, ROCKGLEN										
1C.....	2	5	Thatcher.....	14.1	—	25	3.0	57	3 Nor.	—
			Canthatch.....	14.4	—	25	3.5	57	3 Nor.	—
			Selkirk.....	15.0	—	25	2.8	56	4 Nor.	—
			Pembina.....	14.5	—	26	3.3	58	3 Nor.	I.
			Lake.....	15.5	—	26	3.0	57	3 Nor.	—
Yield differences not significant.				Rainfall—May to August 7.10 inches.						
RICHARD G. ONESCU, LIMERICK										
1C.....	2	7	Thatcher.....	14.3	—	27	2.0	60	2 Nor.	I.
			Canthatch.....	14.1	—	26	1.0	61	1 Nor.	—
			Selkirk.....	14.1	—	26	1.5	58	2 Nor.	—
			Pembina.....	11.7	—	27	1.0	60	2 Nor.	I.
			Lake.....	16.2	—	31	1.5	59	2 Nor.	—
Necessary difference—1.10 bushels.				Rainfall—May to August 4.57 inches.						
ALVERY C. BIRCHARD, VERWOOD										
1A.....	2	8	Thatcher.....	9.9	99	23	1.0	53	4 Sp.	—
			Canthatch.....	10.9	99	23	1.0	56	4 Nor.	—
			Selkirk.....	9.4	99	23	1.0	51	5 Sp.	—
			Pembina.....	9.1	99	23	1.0	53	4 Sp.	—
			Lake.....	12.1	99	23	1.0	56	4 Nor.	—
Yield differences not significant.				Rainfall—May to August 5.08 inches.						
ROBERT R. DUNN, OGEMA										
1A.....	2	9	Thatcher.....	9.6	—	25	—	61	2 Nor.	I.
			Canthatch.....	10.2	—	24	—	61	2 Nor.	I.
			Selkirk.....	10.3	—	25	—	58	2 Nor.	—
			Pembina.....	9.4	—	25	—	59	2 Nor.	—
			Lake.....	13.3	—	27	—	60	2 Nor.	I.
Necessary difference—1.17 bushels.				Rainfall—May to August 6.27 inches.						
DENNIS E. WEBSTER, TROSSACHS										
2A.....	2	10	Thatcher.....	8.9	86	20	1.8	57	3 Nor.	—
			Canthatch.....	9.1	86	20	1.8	57	3 Nor.	—
			Selkirk.....	9.4	87	20	2.0	53	4 Sp.	—
			Pembina.....	8.2	86	20	1.3	54	4 Sp.	—
			Lake.....	8.9	87	20	1.8	55	4 Sp.	—
Yield differences not significant.				Rainfall—May to August 6.22 inches.						
BRIAN J. SWEENEY, BENGOUGH										
1A.....	2	11	Thatcher.....	2.1	—	10	2.5	50	6 Sp.	—
			Canthatch.....	1.8	—	9	2.8	51	5 Sp.	—
			Selkirk.....	2.5	—	11	1.3	48	Fd.	—
			Pembina.....	2.0	—	9	3.5	49	6 Sp.	—
			Lake.....	2.2	—	11	2.3	49	6 Sp.	—
Yield difference not significant.				Rainfall—May to August 3.57 inches.						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1A.....	2	3	Gerald Tames, Buffalo Gap.							

WHEAT POOL DISTRICT 3

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
CLIFFORD BROWN, ORKNEY										
1C.....	3	2	Thatcher.....	14.5	—	23	3.0	53	4 Sp.	—
			Canthatch.....	15.5	—	23	3.0	56	4 Nor.	—
			Selkirk.....	15.1	—	30	2.0	52	5 Sp.	—
			Pembina.....	15.4	—	20	4.0	56	4 Nor.	—
			Lake.....	15.3	—	27	1.0	52	5 Sp.	—
Yield differences not significant. Rainfall—May to August 5.05 inches.										
ALBERT J. FONTAINE, CLAYDON										
1C.....	3	4	Thatcher.....	8.6	—	—	—	57	3 Nor.	—
			Canthatch.....	8.0	—	—	—	59	2 Nor.	—
			Selkirk.....	7.5	—	—	—	56	4 Nor.	—
			Pembina.....	6.8	—	—	—	58	2 Nor.	—
			Lake.....	7.5	—	—	—	57	3 Nor.	—
Yield differences not significant. Rainfall—Record Incomplete.										
ALFRED J. PIERCE, CONSUL										
1C.....	3	5	Thatcher.....	19.4	87	—	—	58	2 Nor.	—
			Canthatch.....	19.8	87	—	—	59	2 Nor.	—
			Selkirk.....	18.8	90	—	—	57	3 Nor.	—
			Pembina.....	19.8	87	—	—	58	2 Nor.	—
			Lake.....	21.4	90	—	—	57	3 Nor.	—
Yield differences not significant. Rainfall—May to August 4.23 inches.										
EVELYN R. L. PIDT, EASTEND										
1C.....	3	7	Thatcher.....	6.4	—	—	—	62	3 Nor.	F.
			Canthatch.....	6.7	—	—	—	61	4 Nor.	F.
			Selkirk.....	7.5	—	—	—	60	4 Nor.	F.
			Pembina.....	7.8	—	—	—	61	3 Nor.	F., G.
			Lake.....	5.8	—	—	—	59	No. 5	F., G.
Yield differences not significant. Rainfall record incomplete.										
LYLE EAST, SHAUNAVON										
1C.....	3	8	Thatcher.....	19.4	—	—	—	63	1 Nor.	—
			Canthatch.....	21.1	—	—	—	63	1 Nor.	—
			Selkirk.....	18.7	—	—	—	61	2 Nor.	I.
			Pembina.....	17.8	—	—	—	61	2 Nor.	I.
			Lake.....	21.5	—	—	—	61	2 Nor.	I.
Necessary difference—2.00 bushels. Rainfall report—May to August 6.18 inches.										
HUGH E. McDONOUGH, CRICHTON										
1C.....	3	9	Thatcher.....	14.9	109	23	2.8	61	2 Nor.	Bl., St.
			Canthatch.....	14.3	109	23	2.8	61	2 Nor.	Bl., St.
			Selkirk.....	16.0	110	23	2.8	59	2 Nor.	—
			Pembina.....	14.7	110	21	3.0	59	2 Nor.	—
			Lake.....	13.0	110	24	3.0	60	2 Nor.	Bl., St.
Test damaged by cattle—yields not included in zone summary. Rainfall record incomplete.										
DWAYNE M. ULM, ANEROID										
1C.....	3	10	Thatcher.....	15.6	—	—	—	57	3 Nor.	—
			Canthatch.....	15.7	—	—	—	58	3 Nor.	Bl.
			Selkirk.....	12.9	—	—	—	55	4 Sp.	—
			Pembina.....	13.2	—	—	—	55	4 Sp.	—
			Lake.....	11.2	—	—	—	57	3 Nor.	—
Necessary difference—2.30 bushels. Rainfall—May to August 3.78 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1C.....	3	1	Dale Jones, McCord.							
1C.....	3	6	Kenneth Gordon, Eastend.							

WHEAT POOL DISTRICT 4

MELVIN F. REIMER, LEINAN										
1A.....	4	3	Thatcher.....	16.4	102	30	5.0	55	4 Sp.	—
			Canthatch.....	15.7	102	32	5.0	56	4 Nor.	—
			Selkirk.....	15.7	102	33	6.0	50	6 Sp.	—
			Pembina.....	16.2	102	30	5.0	53	4 Sp.	—
			Lake.....	14.0	105	33	6.0	54	4 Sp.	—
Yield differences not significant. Rainfall—May to August 7.51 inches.										
WILLIAM FRIESEN, WYMARK										
2C.....	4	3	Thatcher.....	11.6	—	—	—	50	6 Sp.	—
			Canthatch.....	11.6	—	—	—	50	6 Sp.	—
			Selkirk.....	10.5	—	—	—	49	6 Sp.	—
			Pembina.....	11.2	—	—	—	49	6 Sp.	—
			Lake.....	8.4	—	—	—	50	6 Sp.	—
Necessary difference—1.10 bushels. Rainfall—May to August 6.98 inches.										

Wheat Pool District 4—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commer- cial grades	Grading remarks
GERALD R. MILLER, WEBB										
1B.....	4	4	Thatcher.....	12.6	105	29	3.0	63	1 Nor.	—
			Canthatch.....	14.3	104	29	3.8	64	1 Nor.	—
			Selkirk.....	10.9	107	29	3.8	62	2 Nor.	St.
			Pembina.....	12.5	105	29	4.0	63	1 Nor.	—
			Lake.....	15.6	106	29	3.8	63	2 Nor.	St.
Yield differences not significant. Rainfall—May to August 6.87 inches.										
GEORGE STEINKE, RICHMOND										
1B.....	4	7	Thatcher.....	21.0	—	—	—	59	2 Nor.	—
			Canthatch.....	20.8	—	—	—	59	2 Nor.	—
			Selkirk.....	19.6	—	—	—	57	3 Nor.	—
			Pembina.....	19.5	—	—	—	58	2 Nor.	—
			Lake.....	21.8	—	—	—	57	3 Nor.	—
Yield differences not significant. Rainfall—May to August 6.79 inches.										
RONALD D. FREY, LEADER										
1B.....	4	8	Thatcher.....	19.6	92	25	1.5	63	1 Nor.	—
			Canthatch.....	19.8	90	24	2.0	63	1 Nor.	—
			Selkirk.....	21.0	92	26	1.0	62	2 Nor.	I.
			Pembina.....	19.1	88	24	3.3	62	2 Nor.	I.
			Lake.....	26.2	101	29	2.5	63	1 Nor.	—
Necessary difference—1.92 bushels. Rainfall—May to August 6.86 inches.										
EDWARD HECK, MENDHAM										
1B.....	4	8	Thatcher.....	13.3	—	20	1.8	60	2 Nor.	Bl.
			Canthatch.....	14.7	—	21	1.8	60	2 Nor.	Bl.
			Selkirk.....	12.1	—	20	1.5	59	2 Nor.	—
			Pembina.....	12.1	—	19	2.0	59	2 Nor.	—
			Lake.....	16.5	—	21	1.5	59	2 Nor.	—
Necessary difference—2.60 bushels. Rainfall—May to August 6.67 inches.										
ALBERT J. KOEHLER, LEMS FORD										
1D.....	4	9	Thatcher.....	11.0	112	15	2.0	58	4 Nor.	G., I.
			Canthatch.....	10.0	114	17	1.0	59	4 Nor.	G., I.
			Selkirk.....	8.5	109	14	2.8	53	No. 5	G.
			Pembina.....	10.7	111	16	1.0	54	No. 5	G.
			Lake.....	9.4	110	15	1.0	56	No. 5	G.
Yield differences not significant. Rainfall—May to August 6.32 inches.										
MARY A. MURCH, LANCER										
1D.....	4	10	Thatcher.....	22.6	—	—	—	61	2 Nor.	Bl.
			Canthatch.....	24.5	—	—	—	62	2 Nor.	Bl.
			Selkirk.....	21.8	—	—	—	60	2 Nor.	Bl.
			Pembina.....	21.0	—	—	—	60	2 Nor.	Bl.
			Lake.....	21.6	—	—	—	60	2 Nor.	Bl.
Samples incomplete—yields not included in zone summary. Rainfall—May to August 6.57 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1B.....	4	1	Dewayne Churchill, Piapot.							

WHEAT POOL DISTRICT 5

LAURALINE AND MERVIN FINKBEINER, GLEN BAIN										
1A.....	5	2	Thatcher.....	18.0	100	28	—	58	2 Nor.	—
			Canthatch.....	18.0	100	28	—	58	2 Nor.	—
			Selkirk.....	15.1	100	27	—	55	4 Sp.	—
			Pembina.....	15.6	101	27	—	57	3 Nor.	—
			Lake.....	15.9	100	27	—	56	4 Nor.	—
Yield differences not significant. Rainfall—May to August 5.69 inches.										
HARRY C. NORTHCOTT, WALDECK										
1A.....	5	4	Thatcher.....	26.3	—	34	2.0	61	1 Nor.	—
			Canthatch.....	27.7	—	32	2.0	62	1 Nor.	—
			Selkirk.....	23.5	—	35	1.0	60	2 Nor.	I.
			Pembina.....	25.6	—	32	3.0	61	2 Nor.	I.
			Lake.....	22.8	—	40	1.0	61	2 Nor.	St.
Necessary difference—3.18 bushels. Rainfall—May to August 8.16 inches.										
LYNDA J. GROSS, HODGEVILLE										
1A.....	5	5	Thatcher.....	—	109	26	1.5	63	1 Nor.	—
			Canthatch.....	—	112	28	2.5	63	1 Nor.	—
			Selkirk.....	—	111	26	1.3	61	2 Nor.	I.
			Pembina.....	—	110	23	3.0	61	2 Nor.	I.
			Lake.....	—	110	29	1.8	61	2 Nor.	I.
Part of test damaged—yields not reliable. Rainfall record incomplete.										

Wheat Pool District 5—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DAVE A. SHELDON, OLD WIVES										
1A.....	5	6	Thatcher.....	5.6	107	18	4.0	58	2 Nor.	—
			Canthatch.....	6.5	107	16	4.0	60	2 Nor.	I.
			Selkirk.....	6.9	106	18	4.0	57	3 Nor.	—
			Pembina.....	5.2	107	16	3.3	57	3 Nor.	—
			Lake.....	7.1	108	20	4.8	60	2 Nor.	I.
Necessary difference—.76 bushels.				Rainfall record incomplete.						
RAYMOND W. WIMAN, PARKBEG										
1A.....	5	7	Thatcher.....	—	118	—	7.8	61	3 Nor.	I.
			Canthatch.....	—	121	—	7.8	61	3 Nor.	I.
			Selkirk.....	—	118	—	8.5	58	3 Nor.	I.
			Pembina.....	—	121	—	7.0	59	4 Nor.	F.
			Lake.....	—	119	—	8.3	59	4 Nor.	F.
Part of test destroyed—yields not reliable.				Rainfall—May to August 5.21 inches.						
DENNIS REESOR, LAKE VALLEY										
2B.....	5	8	Thatcher.....	18.5	86	23	2.3	61	2 Nor.	I.
			Canthatch.....	18.9	86	23	2.3	62	2 Nor.	I.
			Selkirk.....	18.4	85	24	1.8	59	2 Nor.	—
			Pembina.....	16.4	88	21	3.0	60	2 Nor.	I.
			Lake.....	19.3	85	24	2.3	60	2 Nor.	I.
Yield difference not significant.				Rainfall—May to August 6.40 inches.						
CAROL D. HICKS, MARQUIS										
2E.....	5	8	Thatcher.....	16.8	83	18	2.0	61	2 Nor.	I.
			Canthatch.....	18.0	85	19	2.0	62	2 Nor.	I.
			Selkirk.....	15.8	84	21	3.0	59	2 Nor.	—
			Pembina.....	14.7	85	19	4.0	60	2 Nor.	I.
			Lake.....	18.3	87	20	2.0	60	2 Nor.	I.
Necessary difference—1.78 bushels.				Rainfall—May to August 5.35 inches.						
MELVIN G. SMITH, HALVORGATE										
1A.....	5	9	Thatcher.....	—	107	—	2.0	60	2 Nor.	I.
			Canthatch.....	—	100	—	4.0	60	2 Nor.	I.
			Selkirk.....	—	103	—	3.0	57	3 Nor.	—
			Pembina.....	—	106	—	2.0	59	2 Nor.	—
			Lake.....	—	104	—	1.0	60	2 Nor.	I.
Test damaged by animals—yields not reliable.				Rainfall—May to August 8.26 inches.						
ALICE M. DOELL, HERBERT										
1A.....	5	10	Thatcher.....	30.8	92	26	1.0	62	1 Nor.	—
			Canthatch.....	32.8	93	27	1.5	62	1 Nor.	—
			Selkirk.....	25.6	94	26	1.0	61	2 Nor.	I.
			Pembina.....	26.1	94	26	1.3	62	2 Nor.	I.
			Lake.....	27.9	95	30	1.5	61	2 Nor.	I.
Necessary difference—4.78 bushels.				Rainfall—May to August 8.82 inches.						

WHEAT POOL DISTRICT 6

MICHAEL R. BATTY, LANG										
2E.....	6	1	Thatcher.....	31.0	95	20	2.3	63	2 Nor.	I.
			Canthatch.....	31.9	95	20	2.0	63	2 Nor.	I.
			Selkirk.....	25.3	95	20	2.0	62	2 Nor.	I.
			Pembina.....	24.0	94	19	2.0	62	2 Nor.	I.
			Lake.....	25.5	100	21	2.0	62	2 Nor.	I.
Yield difference not significant.				Rainfall—May to August 6.68 inches.						
LEROY P. LARSEN, PARRY										
2A.....	6	3	Thatcher.....	11.0	—	—	—	59	2 Nor.	—
			Canthatch.....	11.1	—	—	—	59	2 Nor.	—
			Selkirk.....	11.3	—	—	—	57	3 Nor.	—
			Pembina.....	10.2	—	—	—	57	3 Nor.	—
			Lake.....	11.9	—	—	—	57	3 Nor.	—
Yield differences not significant.				Rainfall—May to August 5.99 inches.						
RONALD H. SANDERSON, AVONLEA										
2E.....	6	4	Thatcher.....	19.0	74	—	2.0	58	2 Nor.	—
			Canthatch.....	19.2	82	—	2.0	59	2 Nor.	—
			Selkirk.....	17.9	76	—	3.0	55	4 Sp.	—
			Pembina.....	18.9	75	—	2.0	56	4 Nor.	—
			Lake.....	18.6	80	—	1.0	57	3 Nor.	—
Yield differences not significant.				Rainfall—May to August 6.13 inches.						
GARY E. McKENZIE, BELBECK										
2E.....	6	5	Thatcher.....	14.5	104	—	—	63	2 Nor.	I.
			Canthatch.....	14.1	105	—	—	63	2 Nor.	I.
			Selkirk.....	9.0	101	—	—	61	2 Nor.	I.
			Pembina.....	11.0	102	—	—	61	2 Nor.	I.
			Lake.....	14.1	104	—	—	62	3 Nor.	G., I.
Necessary difference—2.71 bushels.				Rainfall record incomplete.						

Wheat Pool District 6—Continued

Cereal Variety Zone	Sub- dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
GLEN L. WILLOUGHBY, SINTALUTA										
3C.....	6	8	Thatcher.....	25.3	—	26	3.3	59	2 Nor.	—
			Canthatch.....	24.7	—	25	3.5	60	2 Nor.	Bl.
			Selkirk.....	23.2	—	25	3.0	57	3 Nor.	—
			Pembina.....	21.4	—	25	4.5	57	3 Nor.	—
			Lake.....	26.1	—	26	3.3	59	2 Nor.	—
Yield differences not significant.				Rainfall—May to August 5.45 inches.						
ORLA L. GIBBENS, BALCARRES										
3C.....	6	9	Thatcher.....	34.2	—	—	—	63	2 Nor.	I.
			Canthatch.....	32.9	—	—	—	64	2 Nor.	I.
			Selkirk.....	23.1	—	—	—	61	2 Nor.	I.
			Pembina.....	25.2	—	—	—	62	2 Nor.	I.
			Lake.....	34.2	—	—	—	63	2 Nor.	I.
Necessary difference—4.91 bushels.				Rainfall—May to August 6.45 inches.						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
2E.....	6	2	Garth Boesch, Riceton.							
2E.....	6	7	Howard I. Duncan, Regina.							
2E.....	6	6	Danny V. Waller, Drinkwater.							

WHEAT POOL DISTRICT 7

LARRY FISK, KELSO										
3A.....	7	1	Thatcher.....	26.3	—	27	5.8	60	2 Nor.	Bl.
			Canthatch.....	24.9	—	28	6.0	60	2 Nor.	I.
			Selkirk.....	24.0	—	26	4.8	59	2 Nor.	—
			Pembina.....	24.3	—	27	4.8	60	2 Nor.	I.
			Lake.....	26.0	—	27	5.0	59	2 Nor.	—
Yield differences not significant.				Rainfall—May to August 8.17 inches.						
KENNETH FOLBAR, WINDTHORST										
3A.....	7	4	Thatcher.....	32.9	95	36	1.0	60	4 Nor.	G., I.
			Canthatch.....	31.1	95	33	2.0	61	3 Nor.	G., I.
			Selkirk.....	33.7	96	35	1.0	59	4 Nor.	G., I.
			Pembina.....	34.7	88	33	3.0	61	4 Nor.	G., I.
			Lake.....	28.8	102	41	1.0	58	3 Nor.	I.
Necessary difference—3.44 bushels.				Rainfall—May to August 8.89 inches.						
CECIL H. LEECH, GLENAVON										
3A.....	7	6	Thatcher.....	29.8	—	29	1.8	61	2 Nor.	I.
			Canthatch.....	29.1	—	28	2.0	61	2 Nor.	I.
			Selkirk.....	28.9	—	27	2.0	60	2 Nor.	I.
			Pembina.....	30.7	—	27	2.5	60	2 Nor.	I.
			Lake.....	28.7	—	32	2.5	58	2 Nor.	—
Yield differences not significant.				Rainfall—May to August 6.42 inches.						
DONALD S. FATHERS, BROADVIEW										
3A.....	7	7	Thatcher.....	30.0	81	29	2.5	61	2 Nor.	I.
			Canthatch.....	31.7	81	31	2.5	62	2 Nor.	I.
			Selkirk.....	26.9	81	28	2.3	60	2 Nor.	I.
			Pembina.....	29.5	81	28	2.3	60	2 Nor.	I.
			Lake.....	26.4	83	35	4.8	60	2 Nor.	I.
Necessary difference—3.34 bushels.				Rainfall—May to August 6.61 inches.						
BARRY W. KINGDON, BEAR CREEK										
3C.....	7	8	Thatcher.....	22.3	—	30	2.0	60	3 Nor.	G., I.
			Canthatch.....	24.9	—	29	1.8	60	3 Nor.	G., I.
			Selkirk.....	21.9	—	28	1.3	57	3 Nor.	—
			Pembina.....	23.9	—	29	2.0	58	3 Nor.	I.
			Lake.....	21.0	—	32	1.5	61	2 Nor.	I.
Yield differences not significant.				Rainfall—May to August 7.26 inches.						
HERBERT G. MAGNUSSEN, SPY HILL										
3C.....	7	9	Thatcher.....	31.2	89	38	1.0	62	2 Nor.	I.
			Canthatch.....	30.8	90	35	1.0	63	2 Nor.	I.
			Selkirk.....	34.6	90	38	1.0	61	3 Nor.	G., I.
			Pembina.....	33.2	90	38	1.0	63	2 Nor.	I.
			Lake.....	37.9	95	41	2.0	62	2 Nor.	I.
Necessary difference—3.93 bushels.				Rainfall—May to August 6.14 inches.						
RODNEY J. DUCZEK, GRAYSON										
3C.....	7	11	Thatcher.....	24.4	103	35	1.0	58	2 Nor.	—
			Canthatch.....	21.0	103	33	1.3	61	2 Nor.	I.
			Selkirk.....	14.4	103	35	1.0	54	4 Sp.	—
			Pembina.....	17.7	103	34	1.0	59	2 Nor.	—
			Lake.....	19.8	103	34	1.3	60	2 Nor.	I.
Necessary difference—6.35 bushels.				Rainfall—May to August 6.07 inches.						

WHEAT POOL DISTRICT 8

Cereal Variety Zone	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
EVELYN G. WEGNER, RHEIN									
3B.....	8	2	Thatcher.....	23.8	—	—	61	2 Nor.	I.
			Canthatch.....	25.4	—	—	61	2 Nor.	I.
			Selkirk.....	21.5	—	—	59	3 Nor.	I.
			Pembina.....	24.2	—	—	59	3 Nor.	I.
			Lake.....	22.6	—	—	60	3 Nor.	G., I.
Yield differences not significant. Rainfall—May to August 8.02 inches.									
ISADORE O. HALYK, MELVILLE									
3C.....	8	3	Thatcher.....	27.7	—	30	62	2 Nor.	I.
			Canthatch.....	27.8	—	30	63	3 Nor.	G., I.
			Selkirk.....	21.9	—	24	61	3 Nor.	G., I.
			Pembina.....	23.1	—	24	61	2 Nor.	I.
			Lake.....	17.7	—	27	59	3 Nor.	G., I.
Necessary difference—3.34 bushels. Rainfall—May to August 5.38 inches.									
SYLVIA RUSNAK, INSINGER									
3B.....	8	7	Thatcher.....	31.2	—	3.0	61	3 Nor.	G., I.
			Canthatch.....	30.4	—	2.3	61	3 Nor.	G., I.
			Selkirk.....	29.3	—	1.3	58	3 Nor.	G., I.
			Pembina.....	28.6	—	3.5	60	3 Nor.	G., I.
			Lake.....	29.8	—	1.0	58	3 Nor.	G., I.
Yield differences not significant. Rainfall—May to August 5.89 inches.									
GRANT W. G. WEEKS, HASSAN									
3B.....	8	8	Thatcher.....	38.0	—	29	60	4 Nor.	G., F.
			Canthatch.....	35.9	—	29	60	4 Nor.	G., F.
			Selkirk.....	34.6	—	29	57	No. 5	G., F.
			Pembina.....	38.1	—	29	59	4 Nor.	G., F.
			Lake.....	27.8	—	30	56	No. 5	G., F.
Yield differences not significant. Rainfall—May to August 7.41 inches.									
GEORGE FEDAK, HUDSON BAY									
3F.....	8	11	Thatcher.....	38.6	104	38	61	3 Nor.	I., F.
			Canthatch.....	39.5	103	35	61	3 Nor.	I., F.
			Selkirk.....	46.2	105	36	60	3 Nor.	I., F.
			Pembina.....	47.2	98	35	61	3 Nor.	I., F.
			Lake.....	41.1	110	40	60	4 Nor.	G., F.
Yield differences not significant. Rainfall record incomplete.									

WHEAT POOL DISTRICT 9

JOHN F. HEGGIE, LEROSS									
3C.....	9	3	Thatcher.....	34.4	106	34	63	2 Nor.	I.
			Canthatch.....	35.5	109	33	62	2 Nor.	I.
			Selkirk.....	36.8	105	35	63	3 Nor.	G., I.
			Pembina.....	35.3	104	32	63	3 Nor.	G., I.
			Lake.....	35.3	109	37	62	3 Nor.	G., I.
Yield differences not significant. Rainfall—May to August 5.90 inches.									
TERRY J. HENFREY, BULYEA									
3C.....	9	4	Thatcher.....	30.9	95	30	61	2 Nor.	I.
			Canthatch.....	31.9	95	30	61	2 Nor.	I.
			Selkirk.....	31.9	95	30	59	2 Nor.	—
			Pembina.....	32.4	95	30	60	2 Nor.	I.
			Lake.....	31.9	95	30	58	2 Nor.	—
Yield differences not significant. Rainfall record incomplete.									
RONALD K. McKAY, GOVAN									
2B.....	9	5	Thatcher.....	29.4	107	27	62	1 Nor.	—
			Canthatch.....	30.2	107	27	63	1 Nor.	—
			Selkirk.....	28.1	107	28	60	2 Nor.	I.
			Pembina.....	28.0	105	25	61	2 Nor.	I.
			Lake.....	31.2	105	30	61	1 Nor.	—
Yield differences not significant. Rainfall—May to August 5.87.									
DONALD J. SCHINDELKA, RAYMORE									
3C.....	9	7	Thatcher.....	22.0	—	26	61	2 Nor.	I.
			Canthatch.....	19.1	—	26	62	2 Nor.	I.
			Selkirk.....	18.0	—	26	60	3 Nor.	G., I.
			Pembina.....	18.6	—	26	60	2 Nor.	I.
			Lake.....	18.8	—	26	61	3 Nor.	G., I.
Necessary difference—1.87 bushels. Rainfall record incomplete.									

Wheat Pool District 9—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BARRY G. MILLER, TUFFNELL										
3C.....	9	9	Thatcher.....	31.2	100	30	1.0	61	2 Nor.	I.
			Canthatch.....	31.8	102	29	1.0	62	2 Nor.	I.
			Selkirk.....	33.8	102	32	1.0	59	3 Nor.	I.
			Pembina.....	32.1	102	29	2.0	59	3 Nor.	I.
			Lake.....	30.9	102	34	1.0	61	3 Nor.	I.
Yield differences not significant. Rainfall—May to August 6.20 inches.										
J. DARRELL GUDMUNDSON, ELFROS										
3C.....	9	10	Thatcher.....	35.6	—	—	—	56	4 Nor.	—
			Canthatch.....	39.9	—	—	—	57	3 Nor.	—
			Selkirk.....	33.7	—	—	—	54	4 Sp.	—
			Pembina.....	37.2	—	—	—	55	4 Sp.	—
			Lake.....	33.2	—	—	—	55	4 Sp.	—
Necessary difference—3.74 bushels. Rainfall—May to August 6.22 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
3C.....	9	1	Georgian Krushelniski, Ituna.							

WHEAT POOL DISTRICT 10

WAYNE C. FIELDS, PENZANCE										
2B.....	10	1	Thatcher.....	24.1	119	22	1.8	61	1 Nor.	—
			Canthatch.....	23.7	123	16	2.0	61	1 Nor.	—
			Selkirk.....	20.8	121	25	1.0	59	2 Nor.	—
			Pembina.....	19.1	125	17	2.0	60	2 Nor.	I.
			Lake.....	22.8	123	23	1.0	59	2 Nor.	—
Yield differences not significant. Rainfall—May to August 8.60 inches.										
RONALD B. PROCKNOW, LUCKY LAKE										
1A.....	10	3	Thatcher.....	14.1	100	25	2.0	58	2 Nor.	—
			Canthatch.....	15.3	100	22	2.3	58	2 Nor.	—
			Selkirk.....	11.6	100	23	2.0	56	4 Nor.	—
			Pembina.....	14.7	100	20	3.0	57	3 Nor.	—
			Lake.....	11.5	105	28	2.0	58	3 Nor.	I.
Samples incomplete—yields not included in zone summary. Rainfall record incomplete.										
BOBBY L. LLOYD, DINSMORE										
1D.....	10	4	Thatcher.....	24.6	—	—	—	59	2 Nor.	—
			Canthatch.....	29.0	—	—	—	60	2 Nor.	I.
			Selkirk.....	23.0	—	—	—	57	3 Nor.	—
			Pembina.....	22.2	—	—	—	57	3 Nor.	—
			Lake.....	17.3	—	—	—	60	2 Nor.	I.
Necessary difference—5.32 bushels. Rainfall record incomplete.										
MAURICE B. HILL, MACRORIE										
2D.....	10	5	Thatcher.....	23.8	100	27	3.3	62	1 Nor.	—
			Canthatch.....	24.7	100	25	2.3	62	1 Nor.	—
			Selkirk.....	23.0	100	25	4.0	61	2 Nor.	I.
			Pembina.....	22.1	100	22	3.3	61	2 Nor.	I.
			Lake.....	25.5	100	29	4.5	61	1 Nor.	—
Necessary difference—1.58 bushels. Rainfall—May to August 8.03 inches.										
RONALD AND BRUCE FOLLICK, STRONGFIELD										
2D.....	10	6	Thatcher.....	39.7	—	28	2.0	62	1 Nor.	—
			Canthatch.....	40.1	—	28	2.3	63	1 Nor.	—
			Selkirk.....	38.6	—	30	5.0	61	2 Nor.	I.
			Pembina.....	39.3	—	27	3.5	62	2 Nor.	I.
			Lake.....	42.5	—	34	2.5	61	2 Nor.	I.
Necessary difference—2.47 bushels. Rainfall—May to August 6.81 inches.										
T. ALFRED RICHARDSON, GIRVIN										
2B.....	10	7	Thatcher.....	24.0	108	21	1.0	62	2 Nor.	I.
			Canthatch.....	23.2	108	21	1.3	61	2 Nor.	I.
			Selkirk.....	18.3	108	20	1.0	61	3 Nor.	I.
			Pembina.....	19.0	108	19	1.3	60	2 Nor.	I.
			Lake.....	22.5	113	22	1.3	60	3 Nor.	I.
Necessary difference—2.59 bushels. Rainfall—May to August 6.23 inches.										
EARL L. BAHT, IMPERIAL										
2B.....	10	8	Thatcher.....	24.4	—	—	—	61	2 Nor.	I.
			Canthatch.....	25.0	—	—	—	61	2 Nor.	I.
			Selkirk.....	25.6	—	—	—	58	2 Nor.	—
			Pembina.....	24.6	—	—	—	60	2 Nor.	I.
			Lake.....	25.9	—	—	—	58	2 Nor.	—
Yield differences not significant. Rainfall—May to August 7.78 inches.										

Wheat Pool District 10—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONALD E. COLLINS, KENASTON										
2D.....10	9		Thatcher.....	25.5	109	30	3.0	61	2 Nor.	I.
			Canthatch.....	25.4	108	30	3.3	61	2 Nor.	I.
			Selkirk.....	23.4	110	31	3.8	58	3 Nor.	I.
			Pembina.....	21.6	110	30	3.8	59	2 Nor.	—
			Lake.....	23.0	108	32	3.5	58	3 Nor.	I.
Necessary difference—2.54 bushels.				Rainfall—May to August 6.65 inches.						
EDWARD G. CLARK, DELISLE										
2D.....10	10		Thatcher.....	17.5	99	20	2.0	60	2 Nor.	I.
			Canthatch.....	15.8	101	19	2.0	60	2 Nor.	I.
			Selkirk.....	16.0	99	21	2.0	58	3 Nor.	I.
			Pembina.....	15.4	101	19	2.8	57	3 Nor.	—
			Lake.....	21.0	99	21	3.5	58	3 Nor.	I.
Necessary difference—2.37 bushels.				Rainfall—May to August 5.65 inches.						

WHEAT POOL DISTRICT 11

GEORGE H. WILLIAMS, WHITE BEAR									
1D.....11	1	Thatcher.....	25.3	—	26	2.0	62	2 Nor.	I.
		Canthatch.....	26.7	—	26	2.0	63	2 Nor.	I.
		Selkirk.....	25.4	—	25	2.0	62	2 Nor.	I.
		Pembina.....	26.5	—	25	2.0	62	2 Nor.	I.
		Lake.....	26.5	—	29	2.0	62	2 Nor.	I.
Yield differences not significant. Rainfall—May to August 7.24 inches.									
E. LYNN BRYNGELSON, ELROSE									
1D.....11	2	Thatcher.....	—	99	21	3.8	61	2 Nor.	I.
		Canthatch.....	—	100	21	4.5	62	2 Nor.	I.
		Selkirk.....	—	100	22	3.3	59	2 Nor.	—
		Pembina.....	—	99	21	3.8	61	2 Nor.	I.
		Lake.....	—	100	20	4.5	61	3 Nor.	G., I.
Test damaged by shattering—yields not reliable. Rainfall—May to August 5.69 inches.									
LAWRENCE C. BILLETT, RICHLEA									
1D.....11	3	Thatcher.....	39.0	113	31	3.0	63	1 Nor.	—
		Canthatch.....	40.1	113	31	3.0	63	1 Nor.	—
		Selkirk.....	36.7	113	31	3.0	61	2 Nor.	I.
		Pembina.....	37.7	105	32	3.0	63	1 Nor.	—
		Lake.....	41.0	113	33	3.0	63	1 Nor.	—
Necessary difference—2.11 bushels. Rainfall—May to August 6.62 inches.									
DOROTHY J. ASHLEY, MANTARIO									
1D.....11	4	Thatcher.....	25.1	96	23	1.8	62	2 Nor.	I.
		Canthatch.....	26.1	97	21	3.3	63	2 Nor.	I.
		Selkirk.....	21.4	96	22	2.3	60	2 Nor.	I.
		Pembina.....	22.9	98	20	2.8	62	2 Nor.	I.
		Lake.....	23.8	98	21	2.0	61	2 Nor.	I.
Necessary difference—2.66 bushels. Rainfall record incomplete.									
LARRY R. WHITE, FLAXCOMBE									
1D.....11	5	Thatcher.....	43.2	106	29	2.0	65	1 Nor.	—
		Canthatch.....	43.2	106	31	3.3	65	1 Nor.	—
		Selkirk.....	41.9	106	30	3.8	63	2 Nor.	I.
		Pembina.....	42.2	106	29	2.8	63	2 Nor.	I.
		Lake.....	33.9	116	33	3.8	63	2 Nor.	I.
Necessary difference—2.24 bushels. Rainfall—May to August 6.39 inches.									
DENNIS J. MOIR, BEADLE									
1D.....11	6	Thatcher.....	23.9	94	31	1.0	59	2 Nor.	—
		Canthatch.....	25.6	95	31	1.0	59	2 Nor.	—
		Selkirk.....	21.5	95	31	3.0	56	4 Nor.	—
		Pembina.....	22.4	94	31	1.0	56	4 Nor.	—
		Lake.....	21.4	97	32	1.0	56	4 Nor.	—
Yield differences not significant. Rainfall—May to August 6.20 inches.									
GREGORY R. MARTIN, HERSCHEL									
1D.....11	8	Thatcher.....	27.8	97	22	1.0	62	2 Nor.	I.
		Canthatch.....	28.4	97	26	1.0	63	2 Nor.	I.
		Selkirk.....	27.8	100	25	1.0	62	2 Nor.	I.
		Pembina.....	29.7	97	23	1.0	62	2 Nor.	I.
		Lake.....	30.4	100	31	2.0	62	2 Nor.	I.
Necessary difference—1.98 bushels. Rainfall—May to August 6.04 inches.									

Wheat Pool District 11—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
HUGH M. HAWKINS, HOOSIER									
1D.....11.....10		Thatcher.....	32.5	105	32	7.8	60	2 Nor.	Bl.
		Canthatch.....	36.0	111	33	7.0	61	2 Nor.	Bl.
		Selkirk.....	32.0	108	33	6.0	59	2 Nor.	—
		Pembina.....	32.2	107	33	5.0	60	2 Nor.	Bl.
		Lake.....	24.5	109	32	7.0	59	3 Nor.	F.
Necessary difference—3.98 bushels. Rainfall—May to August 6.56 inches.									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
1D.....11	2	Ernest Mewis, Forgan.							

WHEAT POOL DISTRICT 12

GERALD D. PADDOCK, BIGGAR									
2D.....12	1	Thatcher.....	25.0	—	32	2.0	60	2 Nor.	I.
		Canthatch.....	26.2	—	32	2.0	61	2 Nor.	I.
		Selkirk.....	26.6	—	34	1.5	58	3 Nor.	I.
		Pembina.....	25.5	—	32	1.8	59	2 Nor.	—
		Lake.....	27.8	—	32	1.5	59	2 Nor.	—
Yield differences not significant. Rainfall record incomplete.									
MICHAEL E. KRAMER, BROADACRES									
2D.....12	4	Thatcher.....	11.7	—	—	—	57	3 Nor.	—
		Canthatch.....	11.3	—	—	—	57	3 Nor.	—
		Selkirk.....	9.3	—	—	—	54	4 Sp.	—
		Pembina.....	12.1	—	—	—	55	4 Sp.	—
		Lake.....	11.5	—	—	—	57	3 Nor.	—
Yield differences not significant. Rainfall record incomplete.									
E. MYLES THURLOW, WINTER									
3E.....12	7	Thatcher.....	23.0	—	28	1.5	58	3 Nor.	I.
		Canthatch.....	21.8	—	27	1.5	57	3 Nor.	—
		Selkirk.....	21.8	—	27	1.0	57	3 Nor.	—
		Pembina.....	22.0	—	27	1.3	58	3 Nor.	I.
		Lake.....	23.6	—	29	1.0	57	3 Nor.	—
Yield differences not significant. Rainfall—May to August 8.12 inches.									
DOUGLAS W. BULLERWELL, CUTKNIFE									
3E.....12	9	Thatcher.....	17.3	127	24	2.8	61	3 Nor.	F.
		Canthatch.....	17.7	126	24	2.3	61	4 Nor.	G., F.
		Selkirk.....	13.5	128	24	3.5	60	4 Nor.	G., F.
		Pembina.....	14.1	127	24	2.8	60	3 Nor.	F.
		Lake.....	15.0	127	24	2.0	61	No. 5	G., F.
Necessary difference—1.18 bushels. Rainfall—May to August 8.09 inches.									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
3G.....12	2	Helen Fullerton, Baljennie.							
2D.....12	6	Terrance Partington, Evesham.							
3E.....12	8	Donald McIntyre, Marsden.							

WHEAT POOL DISTRICT 13

NORBERT BRECHT, BAY TRAIL									
3D.....13	1	Thatcher.....	60.7	98	36	3.3	63	2 Nor.	I.
		Canthatch.....	60.6	100	36	2.8	63	2 Nor.	I.
		Selkirk.....	55.8	99	37	2.8	60	3 Nor.	G., I.
		Pembina.....	57.6	100	37	2.8	62	3 Nor.	G., I.
		Lake.....	53.5	99	36	2.5	61	3 Nor.	G., I.
Yield differences not significant. Rainfall—May to August 4.10 inches.									
RONALD W. RAUCHMAN, VISCOUNT									
2B.....13	2	Thatcher.....	24.2	128	23	2.0	62	3 Nor.	G., I.
		Canthatch.....	22.5	129	24	2.5	62	3 Nor.	G., I.
		Selkirk.....	21.4	127	23	3.3	60	4 Nor.	G., I.
		Pembina.....	26.5	127	22	4.0	62	3 Nor.	G., I.
		Lake.....	28.8	129	27	3.0	60	4 Nor.	G., I.
Yield differences not significant. Rainfall—May to August 4.10 inches.									
EDGAR H. HARDER, DUNDURN									
2D.....13	3	Thatcher.....	21.4	99	31	1.8	63	1 Nor.	—
		Canthatch.....	21.5	100	29	1.8	64	1 Nor.	—
		Selkirk.....	21.7	100	31	2.0	61	2 Nor.	I.
		Pembina.....	21.7	100	30	2.0	62	1 Nor.	—
		Lake.....	25.7	101	31	2.5	62	2 Nor.	I.
Yield differences not significant. Rainfall—May to August 5.49 inches.									

Wheat Pool District 13—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LYNN A. O. MOEN, COLONSA Y										
2B.....13	4		Thatcher.....	38.3	—	29	2.5	63	3 Nor.	F.
			Canthatch.....	36.7	—	28	2.8	64	3 Nor.	G., I.
			Selkirk.....	29.4	—	30	1.8	60	3 Nor.	F.
			Pembina.....	32.1	—	28	3.5	62	3 Nor.	G., I.
			Lake.....	35.6	—	32	1.0	61	3 Nor.	F.
Necessary difference—5.10 bushels.				Rainfall—May to August 5.54 inches.						
WILLIAM J. OLIVER, SASKATOON										
2D.....13	5		Thatcher.....	—	—	—	—	52	Fd.	F.
			Canthatch.....	—	—	—	—	50	Fd.	F.
			Selkirk.....	—	—	—	—	48	Fd.	F.
			Pembina.....	—	—	—	—	51	Fd.	F.
			Lake.....	—	—	—	—	49	Fd.	F.
Test damaged—yields not reliable.				Rainfall record incomplete.						
WALLY I. ANTIFAVE, LANGHAM										
2D.....13	6		Thatcher.....	14.2	97	23	2.5	58	2 Nor.	—
			Canthatch.....	14.0	98	23	2.5	58	2 Nor.	—
			Selkirk.....	13.7	100	23	1.0	56	4 Nor.	—
			Pembina.....	12.9	98	23	3.0	57	3 Nor.	—
			Lake.....	13.6	100	22	1.3	57	3 Nor.	—
Yield differences not significant.				Rainfall—May to August 5.13 inches.						
G. DENIS PRATT, PERDUE										
2D.....13	7		Thatcher.....	10.3	106	23	1.0	57	3 Nor.	—
			Canthatch.....	10.1	106	23	1.0	58	3 Nor.	I.
			Selkirk.....	9.9	106	23	1.3	56	4 Nor.	—
			Pembina.....	10.7	106	23	1.0	57	3 Nor.	—
			Lake.....	12.0	106	24	1.0	57	3 Nor.	—
Yield differences not significant.				Rainfall—May to August 5.99 inches.						
JAMES P. LA BRASH, TOTZKE										
2B.....13	9		Thatcher.....	11.3	—	—	4.8	57	4 Nor.	F.
			Canthatch.....	10.4	—	—	4.5	57	4 Nor.	F.
			Selkirk.....	10.5	—	—	3.8	55	No. 5	F.
			Pembina.....	10.7	—	—	4.5	57	4 Nor.	F.
			Lake.....	14.3	—	—	3.0	54	No. 5	F.
Necessary difference—2.36 bushels.				Rainfall—May to August 5.12 inches.						
ALAIN THOMAS, ST. BRIEUX										
3D.....13	11		Thatcher.....	34.7	96	29	—	62	4 Nor.	F.
			Canthatch.....	38.3	96	28	—	62	4 Nor.	F.
			Selkirk.....	33.5	96	26	—	59	No. 5	G., F.
			Pembina.....	32.1	96	26	—	61	4 Nor.	F.
			Lake.....	35.7	97	31	—	61	No. 5	G., F.
Necessary difference—3.89 bushels.				Rainfall—May to August 6.70 inches.						

Wheat Pool District 14

EARL H. DAVIS, NAICAM									
3D.....14	3	Thatcher.....	30.2	—	32	—	62	3 Nor.	I.
		Canthatch.....	29.5	—	31	—	63	3 Nor.	I.
		Selkirk.....	27.7	—	31	—	62	3 Nor.	I.
		Pembina.....	29.2	—	31	—	62	3 Nor.	I.
		Lake.....	27.7	—	34	—	63	3 Nor.	I.
Yield differences not significant.			Rainfall record incomplete.						
ROSALIE COTE, PERIGORD									
3D.....14	5	Thatcher.....	47.3	99	32	—	61	No. 5	G., F.
		Canthatch.....	47.2	99	32	—	62	No. 5	G., F.
		Selkirk.....	42.7	98	26	—	61	No. 5	G., F.
		Pembina.....	43.7	98	32	—	64	3 Nor.	I.
		Lake.....	48.6	100	30	—	57	Fd.	F.
Yield differences not significant.			Rainfall—May to August 7.95 inches.						
BRUCE D. HRYCAK, CHELAN									
4A.....14	6	Thatcher.....	25.6	100	—	2.5	59	3 Nor.	I., Bl.
		Canthatch.....	25.8	100	—	1.8	60	3 Nor.	I., Bl.
		Selkirk.....	26.8	100	—	1.8	59	3 Nor.	I., Bl.
		Pembina.....	22.4	100	—	2.0	59	3 Nor.	I., Bl.
		Lake.....	25.0	100	—	1.8	59	3 Nor.	I., Bl.
Yield differences not significant.			Rainfall—May to August 8.45 inches.						

Wheat Pool District 14—Continued

Cereal Variety Zone	Dist.	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
ELDON E. LUTZ, MISTATIM										
3F.....14	7		Thatcher.....	42.1	—	—	—	58	No. 5	F.
			Canthatch.....	41.1	—	—	—	58	No. 6	G., F.
			Selkirk.....	41.0	—	—	—	56	No. 6	G., F.
			Pembina.....	37.9	—	—	—	58	No. 5	F.
			Lake.....	28.8	—	—	—	55	Fd.	G., F.
Necessary difference—7.70 bushels.				Rainfall record incomplete.						
JAMES R. MCGOWAN, STAR CITY										
3F.....14	8		Thatcher.....	34.3	101	39	1.0	63	3 Nor.	I., St.
			Canthatch.....	34.6	101	36	1.0	64	3 Nor.	I., St.
			Selkirk.....	31.0	101	39	1.0	62	3 Nor.	I., St.
			Pembina.....	29.4	97	36	2.0	63	3 Nor.	F.
			Lake.....	32.2	108	41	2.0	63	3 Nor.	F.
Yield differences not significant.				Rainfall—May to August 10.73 inches.						
GERALD A. DOUGLAS, MELFORT										
3D.....14	9		Thatcher.....	51.4	104	34	2.0	64	3 Nor.	I.
			Canthatch.....	53.5	105	34	2.0	64	3 Nor.	I.
			Selkirk.....	52.3	106	35	1.0	64	3 Nor.	I.
			Pembina.....	55.6	101	31	2.0	63	3 Nor.	I.
			Lake.....	46.4	108	38	1.0	64	3 Nor.	I.
Yield differences not significant.				Rainfall record incomplete.						
MERVIN J. FRAZER, RIDGEDALE										
3F.....14	10		Thatcher.....	44.0	—	—	—	64	3 Nor.	F.
			Canthatch.....	44.0	—	—	—	64	3 Nor.	F.
			Selkirk.....	40.0	—	—	—	62	4 Nor.	G., F.
			Pembina.....	38.8	—	—	—	63	3 Nor.	F.
			Lake.....	39.3	—	—	—	62	No. 5	G., F.
Necessary difference—3.47 bushels.				Rainfall record incomplete.						

WHEAT POOL DISTRICT 15

HARRY A. ENEQUIST, STEEP CREEK										
3J.....15	3	Thatcher.....	29.2	110	33	2.3	59	2 Nor.	—	
		Canthatch.....	28.7	111	34	1.5	60	2 Nor.	I.	
		Selkirk.....	30.4	111	34	2.5	58	3 Nor.	I.	
		Pembina.....	25.1	111	31	1.5	59	2 Nor.	—	
		Lake.....	27.0	112	32	2.0	58	3 Nor.	I.	
Yield differences not significant. Rainfall—May to August 6.48 inches.										
H. JOHNNY DUNCAN, LEASK										
4B.....15	5	Thatcher.....	31.9	—	28	1.5	59	3 Nor.	F.	
		Canthatch.....	31.6	—	27	1.8	61	3 Nor.	F.	
		Selkirk.....	31.1	—	27	1.3	57	3 Nor.	—	
		Pembina.....	29.3	—	26	1.5	61	4 Nor.	G., F.	
		Lake.....	32.2	—	27	1.8	59	3 Nor.	F.	
Yield differences not significant. Rainfall—May to August 6.33 inches.										
DOLORES M. SCHMALZ, SHELLBROOK										
3J.....15	8	Thatcher.....	20.2	—	26	3.3	62	3 Nor.	F.	
		Canthatch.....	19.4	—	26	3.3	62	3 Nor.	F.	
		Selkirk.....	19.9	—	26	2.3	60	3 Nor.	F.	
		Pembina.....	21.4	—	24	6.0	60	3 Nor.	F.	
		Lake.....	24.4	—	31	1.3	62	4 Nor.	G., F.	
Necessary difference—2.58 bushels. Rainfall—May to August 5.76 inches.										
ARCHIE GAKAN, FOXFORD										
4A.....15	10	Thatcher.....	61.4	103	34	3.5	63	3 Nor.	St.	
		Canthatch.....	63.4	103	34	5.8	62	3 Nor.	St.	
		Selkirk.....	62.0	106	33	5.3	63	3 Nor.	St.	
		Pembina.....	63.1	102	31	2.8	63	3 Nor.	St.	
		Lake.....	63.3	100	38	5.0	62	4 Nor.	G., St.	
Yield differences not significant. Rainfall—May to August 5.67 inches.										
FRANCES L. BROWN, CHOICELAND										
3F.....15	11	Thatcher.....	28.4	101	33	2.0	63	3 Nor.	St.	
		Canthatch.....	29.5	101	34	1.0	63	4 Nor.	St.	
		Selkirk.....	31.1	101	33	1.0	62	3 Nor.	St.	
		Pembina.....	27.7	101	31	1.3	63	2 Nor.	I.	
		Lake.....	29.4	101	36	3.0	62	4 Nor.	St.	
Yield differences not significant. Rainfall—May to August 5.42 inches.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3J.....15	9	Paul Hanson, Spruce Home.								
3D.....15	2	Arnold P. Grambo, Domremy.								

WHEAT POOL DISTRICT 16

Cereal Variety Zone	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
MERVIN M. ZALESCHUK, MAYMONT									
3G.....16	1	Thatcher.....	24.5	93	18	—	62	2 Nor.	I.
		Canthatch.....	24.0	96	20	—	63	2 Nor.	I.
		Selkirk.....	19.0	98	17	—	61	2 Nor.	I.
		Pembina.....	20.8	93	20	—	62	2 Nor.	I.
		Lake.....	17.4	91	18	—	62	2 Nor.	I.
Necessary difference—3.58 bushels.			Rainfall record incomplete.						
EDWARD TOMANEK, WHITKOW									
3G.....16	3	Thatcher.....	8.5	—	14	2.0	59	4 Nor.	G., I.
		Canthatch.....	8.4	—	14	2.0	61	4 Nor.	G., I.
		Selkirk.....	7.4	—	15	2.0	58	4 Nor.	G., I.
		Pembina.....	8.0	—	15	2.0	59	4 Nor.	G., I.
		Lake.....	8.1	—	14	2.0	60	No. 5	Dk., G., I.
Yield differences not significant.			Rainfall—May to August 7.44 inches.						
LYLE CURRIE, BRESAYLOR									
3E.....16	5	Thatcher.....	17.4	—	—	—	62	3 Nor.	F.
		Canthatch.....	16.9	—	—	—	62	3 Nor.	F.
		Selkirk.....	16.1	—	—	—	60	3 Nor.	F.
		Pembina.....	15.2	—	—	—	61	3 Nor.	F.
		Lake.....	19.0	—	—	—	62	4 Nor.	F.
Yield differences not significant.			Rainfall record incomplete.						
RALPH A. KYLE, DORINTOSH									
3H.....16	11	Thatcher.....	46.1	121	36	1.0	61	No. 5	F.
		Canthatch.....	47.2	119	35	2.0	61	No. 5	F.
		Selkirk.....	43.5	122	37	1.5	61	No. 5	F.
		Pembina.....	37.6	120	36	2.0	61	No. 5	F.
		Lake.....	40.7	131	39	1.0	58	No. 6	G., F.
Necessary difference—3.96 bushels.			Rainfall—May to August 12.34 inches.						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
3E.....16	7	Joe Rothery, Paradise Hill.							



Herbert Magnusson is showing the height of the grain in his test at Spy Hill.

OAT TESTS

A total of 42 oat tests were conducted in 1959. They were located only in the cereal variety zones where fairly large quantities of oats are grown. This area included the following cereal variety zones; 3A, 3B, 3C, 3D, 3E, 3G, 3H, 4B. The location of these zones is shown on the map on page 49. All oat tests contained the five varieties Garry, Rodney, Exeter, Fundy, Glen.

DESCRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of these varieties, see "Summarization According to Cereal Variety Zones" on Page 38.

Garry was developed at the Laboratory of Cereal Breeding at Winnipeg. It is resistant to all races of rust now prevalent and to loose and covered smut. Garry has a plump kernel which is slightly smaller than that of Rodney. It has strong straw. Garry is medium early in maturity.

Rodney was developed by the Laboratory of Cereal Breeding at Winnipeg. It is mid-late in maturity and has strong straw. Rodney is resistant to most but not all races of stem and leaf rust and to loose and covered smut. It has large plump kernels. The hull tends to shed during threshing.

Exeter was developed at the Laboratory of Cereal Breeding, Winnipeg and released in 1941. It is a late maturing variety with tall, slightly weak straw. It is susceptible to smut, to some races of stem rust and to crown rust.

Fundy was developed at the Experimental Farm, Ottawa, and licensed in 1957. It is quite early maturing, and has mid-tall, mid-strong straw. It is resistant to Victoria blight and semi-resistant to smut. It is resistant to only some races of stem and crown rust.

Glen was developed at Macdonald College, Quebec. It is early maturing and has medium long, medium strong straw. It is resistant to some but not all races of stem rust, moderately resistant to crown rust and covered smut, but is susceptible to loose smut.

**Table No. 26—Average Yields in Bushels Per Acre
Summarized by Cereal Variety Zones**

Cereal** Variety Zone	No. of Satisfactory Tests	Garry	Rodney	Exeter	Fundy	Glen	Necessary Difference in bu.*
3A.....	6	40.5	38.0	36.5	39.0	44.4	2.02
3B.....	6	66.0	65.9	65.0	64.1	69.1	3.12
3C.....	7	53.5	48.5	46.3	50.5	52.0	3.34
3D.....	3	49.9	56.9	55.4	52.1	53.5	N.S.
3E.....	3	53.0	57.2	57.5	56.6	58.6	N.S.
3G.....	2	49.2	52.6	48.5	52.1	57.5	N.S.

***Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.—Yield differences not significant.

**See zone map, page 49.

Table No. 26. **Glen** produced outstanding yields throughout the area in which oat tests were located in 1959. It placed first in four zones, second in one and third in the remaining zone. However, it should be noted that these yields were produced under nearly rust-free conditions. Since **Glen** is susceptible to some races of rust now prevalent it would be expected to yield less favorably if rust was present. **Rodney** yielded reasonably well in all zones in which it was tested but made a better showing in northern zones than in the south-eastern zones. **Garry** yielded well in the zones located in the east and south-east of the province, but it did not yield as well in the northern zones. **Exeter** and **Fundy** were rather variable in yield from zone to zone but neither produced outstanding results in 1959 in the area in which oat tests were conducted.

**Table No. 27—Average Number of Days from Seeding to Ripening
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Garry	Rodney	Exeter	Fundy	Glen
3A.....	85.5	86.0	88.3	84.3	85.0
3B.....	95.3	95.0	95.8	91.3	93.3
3C.....	96.7	100.7	100.7	91.7	93.7
3D.....	94.5	96.5	96.0	88.0	90.5
3E.....	105.0	105.5	106.0	100.0	105.0
3H.....	100.0	100.0	105.0	92.0	97.0
4B.....	121.0	122.0	120.0	121.0	120.0

Table No. 27. **Fundy** was, on the average, the earliest maturing variety of those tested. It was the earliest in six of the seven zones, and tied for third place in the remaining zone. **Glen** was second earliest on an average basis. It tied for first place in one zone, placed second in four zones and tied for second place in the remaining zone. **Garry** was third earliest maturing on an average basis. **Rodney** and **Exeter** were quite similar in time of maturity, with **Rodney** being slightly earlier in most zones.

**Table No. 28—Average Height of Plants in Inches
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Garry	Rodney	Exeter	Fundy	Glen
3A.....	27.8	28.5	28.7	30.0	29.8
3B.....	33.4	33.8	33.2	33.4	34.2
3C.....	32.7	29.7	30.7	32.7	31.7
3D.....	36.5	38.5	34.0	38.5	36.0
3E.....	28.0	28.0	27.3	29.0	27.7
3G.....	27.0	25.0	26.0	28.0	28.0
3H.....	37.0	38.0	39.0	38.0	38.0
4B.....	18.5	14.5	15.0	21.5	22.0

Table No. 28. On an average basis **Exeter** had shorter straw than the other four varieties tested, although in Zone 3H it was slightly taller than the others. **Rodney** was second shortest on an average basis, and **Garry** placed third. **Fundy** and **Glen** placed fourth and fifth respectively on an average basis.

**Table No. 29—Average Straw Strength of Plants
on the Basis 1 (Strong) to 9 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Garry	Rodney	Exeter	Fundy	Glen
3A.....	2.7	2.6	3.0	3.0	2.5
3B.....	1.8	1.8	2.4	2.1	2.1
3C.....	3.0	3.1	5.4	4.0	3.4
3D.....	3.7	5.8	2.9	4.2	4.8
3E.....	1.8	2.0	2.4	1.6	2.2
3G.....	2.0	2.0	3.0	2.0	2.0
3H.....	1.0	1.0	1.8	1.0	1.0
4B.....	2.0	2.0	1.5	2.5	2.5

Table No. 29. The only significant weakness of straw appeared in Zones 3C and 3D and even in these zones the weakness was not serious. On an average basis **Garry** showed the strongest straw. **Rodney**, **Fundy** and **Glen** were quite similar in strength of straw. **Exeter** was somewhat less strong on an average basis but its placing varied from zone to zone.

**Table No. 30—Average Weight Per Measured Bushel
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Garry	Rodney	Exeter	Fundy	Glen
3A.....	37.3	38.5	36.3	35.8	35.5
3B.....	37.8	39.3	37.3	36.3	36.0
3C.....	37.3	38.3	36.6	35.6	36.0
3D.....	36.7	37.7	36.7	35.0	36.0
3E.....	37.8	39.3	37.3	36.0	35.5
3G.....	36.7	36.3	35.0	34.7	36.0
3H.....	40.0	42.0	40.0	39.0	39.0
4B.....	38.0	40.5	38.5	37.5	37.0

Table No. 30. **Rodney** outweighed the other four varieties tested in seven of the eight zones, and placed second in the remaining zone. **Garry** placed second on an average basis followed by **Exeter**. **Fundy** and **Glen**, which were generally somewhat lower in bushel weight than the other three varieties, placed fourth and fifth respectively on an average basis.

Table No. 31—Percentage of Commercial Grades by Varieties

Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex. 1 Fd. %	1 Fd. %	2 Fd. %
Garry.....	9.7	12.9	9.7	25.8	29.0	12.9
Rodney.....	6.5	12.9	19.4	38.6	19.4	3.2
Exeter.....	6.5	12.9	9.7	29.0	32.2	9.7
Fundy.....	3.2	12.9	25.8	12.9	32.3	12.9
Glen.....	3.2	16.1	19.4	9.7	35.5	16.1

Table No. 31. The percentage of samples falling in the grades one and two C.W. do not indicate any significant difference among varieties. However, if the percentage of samples falling in the three highest grades are grouped, greater differences are evident. **Fundy** graded highest with nearly 42 percent of the samples falling in the three highest grades. **Rodney** and **Glen** were quite similar with nearly 39 percent of the samples falling in the three highest grades. **Garry** and **Exeter** graded somewhat lower than the other three varieties with 32 percent and 29 percent respectively falling in these three grades.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Oat tests were conducted by the Wheat Pool in 1958 but not in 1956 or 1957 so it will not be possible to give a comparison of varieties over a long period of consecutive years. Some of the same varieties were tested in 1955 and reference will be made in this section to yields in that year.

Table No. 32—Summarized Results for Zone 3A
(6 successful tests)

	Garry	Rodney	Exeter	Fundy	Glen
Yield in bushels per acre*	40.5	38.0	36.5	39.0	44.4
Days from seeding to ripening.....	85.5	86.0	88.3	84.3	85.0
Height of plants in inches.....	27.8	28.5	28.7	30.0	29.8
Straw strength (basis 1—strong to 9—weak).....	2.7	2.6	3.0	3.0	2.5
Bushel weight in pounds.....	37.3	38.5	36.3	35.8	35.5
Commercial grades in percentage:	16.7	—	—	—	—
1 C.W.....	49.9	49.9	49.9	16.7	49.9
3 C.W.....	—	16.7	16.7	66.6	33.4
Ex. 1 Fd.....	—	16.7	—	—	—
1 Fd.....	16.7	16.7	16.7	16.7	—
2 Fd.....	16.7	—	16.7	—	16.7

*Necessary difference—2.02 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Glen outyielded the other four varieties tested in this zone in 1959, by a significant margin. It has not been previously tested by the Wheat Pool. It should be kept in mind that very little rust damage occurred in 1959, and while **Glen** produced good yields under rust-free conditions, it would not be a suitable variety for this area. It is not officially recommended.

Garry placed second in this zone in 1959. It placed second in 1955 and 1958 as well. **Garry** is rust resistant and is officially recommended for the zone.

Fundy placed third in this zone in 1959 and tied for third place in 1958. Like **Glen**, **Fundy** is susceptible to some of the races of rust now prevalent, and in this area would not be a safe variety to grow.

Rodney placed fourth in this zone in 1959. It placed first in 1955 and tied for third place in 1958. Because of its rust resistance, **Rodney** is officially recommended for the zone.

Exeter was outyielded by the other four varieties tested in this zone in 1959. It placed first in 1958 and fourth in 1955. Because of its susceptibility to rust it is not recommended for this zone.

Table No. 33—Summarized Results for Zone 3B

(6 successful tests)

	Garry	Rodney	Exeter	Fundy	Glen
Yield in bushels per acre*	66.0	65.9	65.0	64.1	69.1
Days from seeding to ripening	95.3	95.0	95.8	91.3	93.3
Height of plants in inches	33.4	33.8	33.2	33.4	34.2
Straw strength (basis 1—strong to 9—weak)	1.8	1.8	2.4	2.1	2.1
Bushel weight in pounds	37.8	39.3	37.3	36.3	36.0
Commercial grades in percentage: 1 C.W.	16.7	16.7	16.7	16.7	16.7
2 C.W.	16.7	16.7	16.7	16.7	16.7
3 C.W.	—	—	—	16.7	16.7
Ex. 1 Fd.	16.7	49.9	16.7	16.7	—
1 Fd.	49.9	16.7	49.9	16.6	33.2
2 Fd.	—	—	—	16.6	16.7

*Necessary difference—3.12 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Glen outyielded the other four varieties in this zone in its first year of testing by the Wheat Pool. However, due to its susceptibility to rust it would not be a good choice in this area.

Garry placed second in this zone in 1959 and also in 1955. In 1958 it placed third. Garry appears to be adapted to this area and since it is rust resistant it is officially recommended for the zone.

Rodney placed third in this zone in 1959. It was the highest yielding variety tested in this zone in both 1955 and 1958. Rodney is officially recommended for the zone.

Exeter placed fourth in this zone in 1959. It ranked second in 1958 and third in 1955. Exeter is susceptible to rust and is not officially recommended for this zone.

Fundy was outyielded by the other four varieties in its first year of testing by the Wheat Pool.

Table No. 34—Summarized Results for Zone 3C

(7 successful tests)

	Garry	Rodney	Exeter	Fundy	Glen
Yield in bushels per acre*	53.5	48.5	46.3	50.5	52.0
Days from seeding to ripening	96.7	100.7	100.7	91.7	93.7
Height of plants in inches	32.7	29.7	30.7	32.7	31.7
Straw strength (basis 1—strong to 9—weak)	3.0	3.1	5.4	4.0	3.4
Bushel weight in pounds	37.3	38.3	36.6	35.6	36.0
Commercial grades in percentage: 1 C.W.	14.3	14.3	14.3	—	—
2 C.W.	—	—	—	28.6	14.3
3 C.W.	28.6	42.9	14.3	28.6	28.6
Ex. 1 Fd.	14.3	—	14.3	—	14.3
1 Fd.	28.5	42.8	42.8	28.6	14.3
2 Fd.	14.3	—	14.3	14.2	28.5

*Necessary difference—3.34 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Garry outyielded the other four varieties in this zone in 1959. It placed third in 1955 and fourth in 1958. Garry's rust resistance is important in this zone and it is officially recommended.

Glen placed second in this zone in its first year of testing by the Wheat Pool. Because of its susceptibility to rust this variety would not be a good choice for this area.

Fundy placed third in this zone in 1959. It placed second in the previous year. Like Glen, Fundy is susceptible to rust and would be likely to suffer damage in this zone.

Rodney placed fourth in this zone in 1959. It placed third in 1958 and second in 1955. Because of its rust resistance, Rodney is officially recommended for the zone.

Exeter was outyielded by the other four varieties tested in 1959. It placed first in both 1955 and 1958. Due to its rust susceptibility it is not recommended for this zone.

Table No. 35—Summarized Results for Zone 3D
(3 successful tests)

	Garry	Rodney	Exeter	Fundy	Glen
Yield in bushels per acre*	49.9	56.9	55.4	52.1	53.5
Days from seeding to ripening	94.5	96.5	96.0	88.0	90.5
Height of plants in inches	36.5	38.5	34.0	38.5	36.0
Straw strength (basis 1—strong to 9—weak)	3.7	5.8	2.9	4.2	4.8
Bushel weight in pounds	36.7	37.7	36.7	35.0	36.0
Commercial grades in percentage: 3 C.W.	33.4	33.4	33.3	33.3	33.3
Ex. 1 Fd.	—	33.3	—	—	—
1 Fd.	33.3	33.3	66.7	66.7	66.7
2 Fd.	33.3	—	—	—	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Rodney outyielded the other varieties in this zone in 1959. It placed second in 1958 and third in 1955. Rodney is officially recommended for the zone.

Exeter placed second in this zone in 1959. It placed first in both 1955 and 1958. Exeter is well adapted to the area and is officially recommended.

Glen placed third in this zone in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability in this area.

Fundy placed fourth in this zone in both 1958 and 1959. It is not recommended for the zone.

Garry ranked fifth in this zone in 1959. However, it yielded better in previous years, placing second in 1955 and third in 1958. It has yielded well in other tests in this area and is officially recommended.



Erik Halliday's costume indicates that he will be interested in oats. He can well be proud of the crop shown here.

Table No. 36—Summarized Results for Zone 3E
(3 successful tests)

	Garry	Rodney	Exeter	Fundy	Glen
Yield in bushels per acre*	53.0	57.2	57.5	56.6	58.6
Days from seeding to ripening	105.0	105.5	106.0	100.0	105.0
Height of plants in inches	28.0	28.0	27.3	29.0	27.7
Straw strength (basis 1—strong to 9—weak)	1.8	2.0	2.4	1.6	2.2
Bushel weight in pounds	37.8	39.3	37.3	36.0	35.5
Commercial grades in percentage: 3 C.W.	—	25.0	—	—	—
Ex. 1 Fd.	75.0	75.0	75.0	50.0	25.0
1 Fd.	—	—	25.0	25.0	50.0
2 Fd.	25.0	—	—	25.0	25.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Glen outyielded the other four varieties in this zone in its first year of testing by the Wheat Pool. It appears to be adapted to this area but requires further testing.

Exeter placed second in this zone in 1959. It placed first in both 1955 and 1958. It appears well adapted to this zone and is officially recommended.

Rodney ranked third in this zone in 1959. It placed second in 1955 and fourth in 1958. Rodney has yielded well in other tests in this zone and is officially recommended.

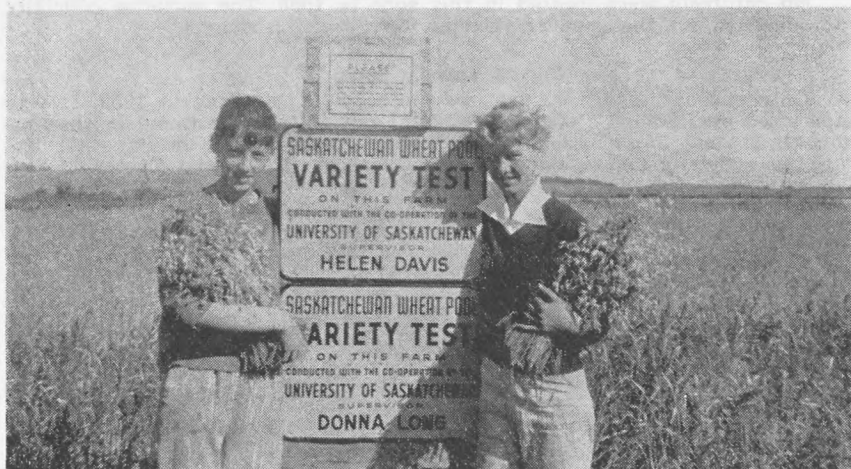
Fundy placed fourth in this zone in 1959. It placed second in 1958. Further testing of this variety is required to establish its adaptation.

Garry placed fifth in yield in this zone in 1959. It placed third in both 1955 and 1958. Garry has yielded well in other tests in this area and it is officially recommended.

In addition to the recommended varieties mentioned above, Eagle is also officially recommended.

Cereal Variety Zone 3F

No oat tests were located in this zone in 1959. The officially recommended varieties for the zone are Eagle, Exeter, Garry and Rodney.



Donna Long and Helen Davis are neighbors and they conducted an oat test together this year.

Table No. 37—Summarized Results for Zone 3G
(2 successful tests)

	Garry	Rodney	Exeter	Fundy	Glen
Yield in bushels per acre*	49.2	52.6	48.5	52.1	57.5
Days from seeding to ripening.....	—	—	—	—	—
Height of plants in inches.....	27.0	25.0	26.0	28.0	28.0
Straw strength (basis 1—strong to 9—weak).....	2.0	2.0	3.0	2.0	2.0
Bushel weight in pounds.....	36.7	36.3	35.0	34.7	36.0
Commercial grades in percentage: Ex: 1 Fd.....	33.3	66.7	66.7	—	—
1 Fd.....	66.7	—	—	66.7	100.0
2 Fd.....	—	33.3	33.3	33.3	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Glen outyielded the other four varieties in this zone in its first year of testing by the Wheat Pool. It appears to be adapted to this area but requires further testing.

Rodney placed second in this zone in 1959. It placed second in 1955 and tied for second place in 1958. It has yielded well in other tests in this area and is officially recommended.

Fundy ranked third in this zone in 1959. It tied for second place in the previous year. Fundy requires further testing to definitely establish its adaptation.

Garry placed fourth in this zone in 1959. It placed fourth in 1955 and 1958 as well. Garry has yielded well in other tests in this zone and is officially recommended.

Exeter placed fifth in this zone in 1959. In both 1955 and 1958 it out-yielded the other varieties tested in this zone. It has yielded well in other tests in this zone and is officially recommended.

In addition to the recommended varieties mentioned above, **Eagle** is also officially recommended.

Cereal Variety Zone 3H

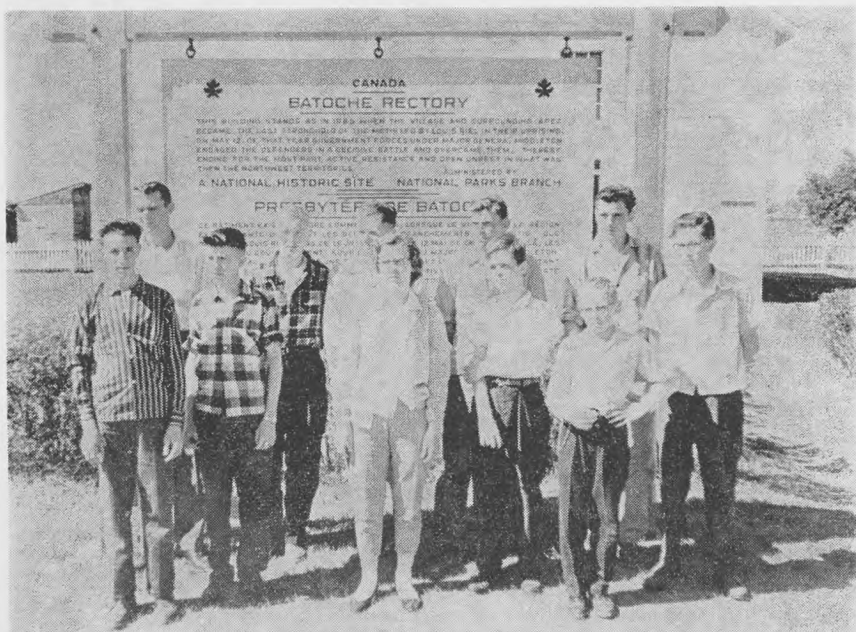
Only one successful oat test was located in this small zone in 1959. It was supervised by Francis Arlett of Loon Lake and can be found in the section "Individual Summarized Results of All Tests—Oats" on Page 47. The varieties officially recommended for this zone are **Eagle**, **Fortune** and **Victory**.

Cereal Variety Zone 4A

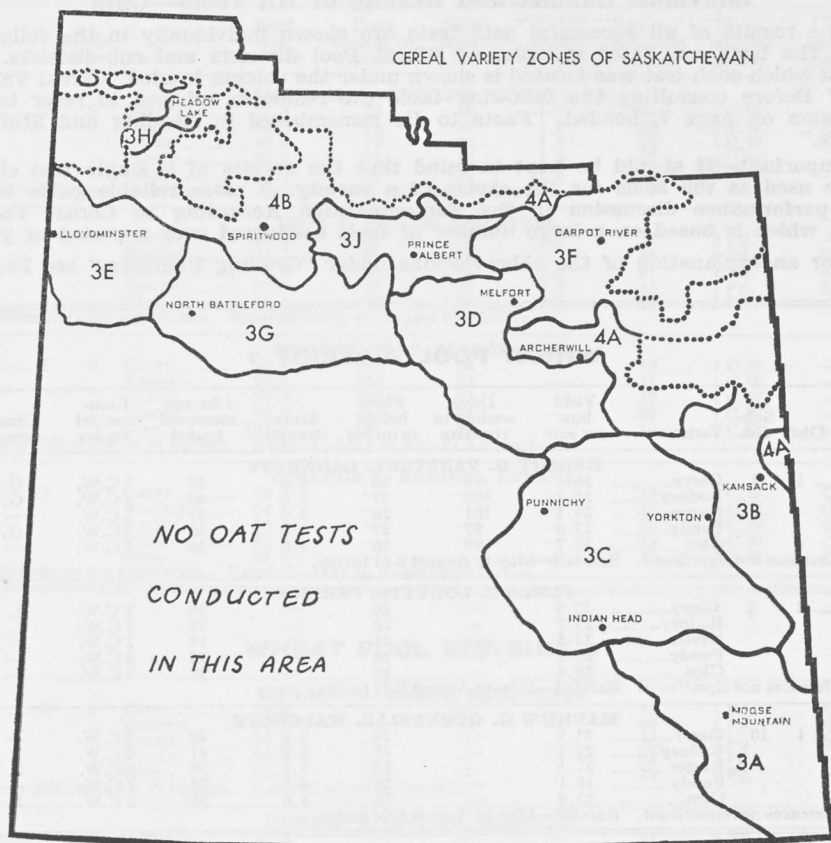
No oat tests were located in this zone in 1959. The varieties officially recommended for the zone are **Exeter**, **Garry** and **Rodney**.

Cereal Variety Zone 4B

Only one successful oat test was located in this zone in 1959. It was supervised by Rudolph Peters of Rabbit Lake and can be found in the section "Individual Summarized Results of All Tests—Oats" on Page 47. The varieties officially recommended for this zone are **Eagle** and **Exeter**.



Many districts held tours for their supervisors. This group from District 15 visited the historic location of the Battle of Batoche.



Graphs showing oat yields in 1959.

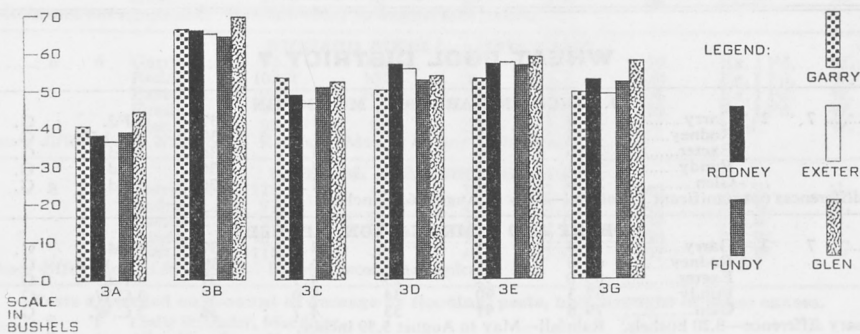


Table No. 38

Individual Summarized Results of All Tests—Oats

The results of all successful oats tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks," see Page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT G. VANSTONE, CARNDUFF										
3A.....	1	1	Garry.....	26.1	99	26	2.0	39	2 C.W.	G.
			Rodney.....	25.2	100	27	2.0	40	2 C.W.	G.
			Exeter.....	25.2	101	26	2.0	37	2 C.W.	—
			Fundy.....	23.8	97	27	1.0	36	3 C.W.	G.
			Glen.....	30.7	99	26	1.0	36	2 C.W.	—
Yield differences not significant.				Rainfall—May to August 6.61 inches.						

JAMES E. LORETTE, FERTILE										
3A.....	1	2	Garry.....	22.8	—	20	—	38	2 C.W.	I.
			Rodney.....	23.7	—	20	—	39	2 C.W.	I.
			Exeter.....	23.5	—	21	—	39	2 C.W.	I.
			Fundy.....	26.2	—	18	—	35	3 C.W.	—
			Glen.....	28.4	—	20	—	37	2 C.W.	—
Yield differences not significant.				Rainfall—May to August 8.32 inches.						

MAURICE G. QUENNELLE, WAUCHOPE										
3A.....	1	10	Garry.....	21.8	—	29	3.8	40	1 C.W.	—
			Rodney.....	22.1	—	29	3.8	41	2 C.W.	I.
			Exeter.....	21.1	—	28	3.5	39	2 C.W.	I.
			Fundy.....	16.1	—	29	4.5	37	2 C.W.	—
			Glen.....	22.9	—	28	4.0	38	2 C.W.	I.
Yield differences not significant.				Rainfall—May to August 6.94 inches.						

WHEAT POOL DISTRICT 6

JAMES L. LANAWAY, LORLIE										
3C.....	6	9	Garry.....	61.3	88	34	4.0	40	Ex. 1 Fd.	G.
			Rodney.....	31.6	99	29	3.3	36	1 Fd.	G.
			Exeter.....	41.5	97	29	6.8	38	Ex. 1 Fd.	G.
			Fundy.....	54.8	81	31	5.0	37	2 C.W.	—
			Glen.....	61.2	81	32	4.8	38	Ex. 1 Fd.	G.
Necessary difference—11.38 bushels.				Rainfall—May to August 4.52 inches.						

WHEAT POOL DISTRICT 7

J. SINCLAIR HARRISON, MOOSOMIN										
3B.....	7	2	Garry.....	34.6	87	27	1.0	37	1 Fd.	G.
			Rodney.....	31.3	87	27	1.0	39	Ex. 1 Fd.	G.
			Exeter.....	31.6	88	27	1.0	36	1 Fd.	G.
			Fundy.....	33.1	87	27	1.0	36	1 Fd.	G.
			Glen.....	34.6	87	27	1.0	36	1 Fd.	G.
Yield differences not significant.				Rainfall—May to August 6.95 inches.						

ROBERT AND JAMES EASTON, KENNEDY										
3A.....	7	3	Garry.....	74.4	91	29	3.3	37	1 Fd.	G.
			Rodney.....	61.8	91	27	2.7	39	Ex. 1 Fd.	G.
			Exeter.....	65.8	92	25	4.7	37	1 Fd.	G.
			Fundy.....	67.3	90	34	5.0	38	3 C.W.	G.
			Glen.....	79.8	91	33	4.7	36	3 C.W.	G.
Necessary difference—8.20 bushels.				Rainfall—May to August 5.59 inches.						

Wheat Pool District 7—Continued

Cereal Variety Zone	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks	
GLORIA M. LAURITSEN, KEGWORTH										
3A.....	7	5	Garry.....	57.5	72	38	1.0	37	2 C.W.	—
			Rodney.....	56.9	72	38	1.0	38	3 C.W.	I.
			Exeter.....	49.8	77	38	1.0	35	3 C.W.	—
			Fundy.....	62.0	72	38	1.0	35	3 C.W.	—
			Glen.....	63.1	72	38	1.0	35	3 C.W.	—
Necessary difference—			3.25 bushels. Rainfall—May to August 8.32 inches.							
RON F. PILLER, GRENFELL										
3A.....	7	7	Garry.....	40.5	80	25	3.3	33	2 Fd.	—
			Rodney.....	38.2	81	30	3.3	34	1 Fd.	G.
			Exeter.....	33.6	83	34	3.8	31	2 Fd.	—
			Fundy.....	38.8	78	34	3.3	34	1 Fd.	G.
			Glen.....	41.4	78	34	2.0	31	2 Fd.	—
Yield differences not significant.			Rainfall—May to August 4.93 inches.							
RODNEY TEBB, MARCHWELL										
3B.....	7	9	Garry.....	92.0	104	34	—	39	1 C.W.	—
			Rodney.....	98.1	104	33	—	41	1 C.W.	—
			Exeter.....	96.5	103	33	—	39	1 C.W.	—
			Fundy.....	92.8	94	34	—	38	1 C.W.	—
			Glen.....	102.2	101	33	—	39	1 C.W.	—
Necessary difference—			6.27 bushels. Rainfall—May to August 6.82 inches.							
TERENCE E. BENDER, ZENETA										
3C.....	7	10	Garry.....	58.3	—	—	—	39	3 C.W.	G.
			Rodney.....	54.8	—	—	—	40	3 C.W.	G.
			Exeter.....	54.8	—	—	—	39	3 C.W.	G.
			Fundy.....	64.4	—	—	—	38	3 C.W.	G.
			Glen.....	52.6	—	—	—	39	3 C.W.	G.
Yield differences not significant.			Rainfall—May to August 4.86 inches.							

WHEAT POOL DISTRICT 8

EDWARD G. KELLY, SALTCOATS										
3B.....	8	2	Garry.....	19.0	—	—	—	35	1 Fd.	W.
			Rodney.....	26.1	—	—	—	37	1 Fd.	W.
			Exeter.....	25.8	—	—	—	36	1 Fd.	W.
			Fundy.....	28.1	—	—	—	33	2 Fd.	—
			Glen.....	26.4	—	—	—	33	2 Fd.	—
Necessary difference—5.99 bushels.			Rainfall record incomplete.							
RONALD J. SZAROS, MELVILLE										
3C.....	8	3	Garry.....	37.8	—	—	—	33	2 Fd.	—
			Rodney.....	31.6	—	—	—	37	1 Fd.	G.
			Exeter.....	34.8	—	—	—	32	2 Fd.	—
			Fundy.....	22.0	—	—	—	35	1 Fd.	G.
			Glen.....	18.0	—	—	—	33	2 Fd.	—
Necessary difference—11.89 bushels.			Rainfall—May to August 6.94 inches.							
KATHERINE KOROL, DONWELL										
3B.....	8	5	Garry.....	37.3	88	30	2.5	37	1 Fd.	W.
			Rodney.....	40.5	88	30	2.5	39	Ex. 1 Fd.	W.
			Exeter.....	34.7	88	31	3.3	36	1 Fd.	W.
			Fundy.....	33.5	87	32	2.3	35	3 C.W.	—
			Glen.....	37.3	87	33	3.0	34	3 C.W.	—
Yield difference not significant.			Rainfall—May to August 6.28 inches.							
RICHARD PIKULA, AMSTERDAM										
3B.....	8	6	Garry.....	92.2	102	37	1.8	39	Ex. 1 Fd.	W.
			Rodney.....	102.1	101	37	1.5	40	Ex. 1 Fd.	W.
			Exeter.....	104.7	104	38	3.3	38	Ex. 1 Fd.	W.
			Fundy.....	91.7	97	38	3.0	38	Ex. 1 Fd.	W.
			Glen.....	98.3	98	38	2.5	37	1 Fd.	W.
Necessary difference—7.20 bushels.			Rainfall—May to August 10.07 inches.							
LINDA M. JOHNSON, NORQUAY										
3B.....	8	9	Garry.....	121.0	—	39	2.0	40	2 C.W.	G.
			Rodney.....	97.4	—	42	2.0	40	2 C.W.	G.
			Exeter.....	96.9	—	37	2.0	39	2 C.W.	G.
			Fundy.....	105.4	—	36	2.0	38	2 C.W.	G.
			Glen.....	115.9	—	40	2.0	37	2 C.W.	—
Necessary difference—13.56 bushels.			Rainfall record incomplete.							

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3B.....	8	1	Leslie Schrader, MacNutt.
3C.....	8	4	Allen Hamilton, Yorkton.

WHEAT POOL DISTRICT 9

Cereal Variety Zone	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks	
BETTY TKATCH, JASMIN										
3C.....	9	1	Garry.....	57.8	103	34	—	35	1 Fd.	I.
			Rodney.....	53.6	103	31	—	39	3 C.W.	I.
			Exeter.....	45.1	103	33	—	36	1 Fd.	I.
			Fundy.....	55.4	99	35	—	33	2 Fd.	—
			Glen.....	58.6	101	34	—	32	2 Fd.	—
Necessary difference—5.79 bushels.			Rainfall—May to August 5.77 inches.							
ERIK L. HALLIDAY, LESTOCK										
3C.....	9	3	Garry.....	71.9	—	—	—	38	3 C.W.	I.
			Rodney.....	72.7	—	—	—	39	3 C.W.	I.
			Exeter.....	68.3	—	—	—	37	1 Fd.	G.
			Fundy.....	61.6	—	—	—	35	3 C.W.	—
			Glen.....	74.4	—	—	—	37	3 C.W.	I.
Yield differences not significant.			Rainfall—May to August 6.70 inches.							
RONNIE DE YONG, PUNNICHY										
3C.....	9	7	Garry.....	58.1	99	30	2.0	39	1 C.W.	—
			Rodney.....	67.3	100	29	2.8	40	1 C.W.	—
			Exeter.....	53.3	102	30	4.0	39	1 C.W.	—
			Fundy.....	63.5	95	32	3.0	36	2 C.W.	—
			Glen.....	71.9	99	29	2.0	37	2 C.W.	—
Necessary difference—6.46 bushels.			Rainfall—May to August 6.28 inches.							
STEPHEN F. GEORGE, ELFROS										
3C.....	9	10	Garry.....	29.1	—	—	—	37	1 Fd.	G.
			Rodney.....	27.8	—	—	—	37	1 Fd.	G.
			Exeter.....	26.1	—	—	—	35	1 Fd.	G.
			Fundy.....	31.7	—	—	—	35	1 Fd.	G.
			Glen.....	27.4	—	—	—	36	1 Fd.	G.
Yield differences not significant.			Rainfall—May to August 5.57 inches.							

WHEAT POOL DISTRICT 12

GORDON R. CHURN, MAIDSTONE										
3E.....	12	8	Garry.....	20.7	—	—	—	33	2 Fd.	—
			Rodney.....	20.4	—	—	—	36	3 C.W.	G.
			Exeter.....	16.9	—	—	—	34	1 Fd.	G.
			Fundy.....	20.2	—	—	—	33	2 Fd.	—
			Glen.....	27.1	—	—	—	31	2 Fd.	—
Samples incomplete—yields not included in zone summary. Rainfall record incomplete.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
3G.....	12	10	Raymond Lacoursiere, Highgate.							

WHEAT POOL DISTRICT 13

ORVILLE A. L. THEISEN, PILGER										
3D.....	13	10	Garry.....	27.5	—	—	—	33	2 Fd.	—
			Rodney.....	32.1	—	—	—	34	1 Fd.	G.
			Exeter.....	30.8	—	—	—	35	1 Fd.	G.
			Fundy.....	31.8	—	—	—	34	1 Fd.	G.
			Glen.....	32.9	—	—	—	36	1 Fd.	G.
Yield differences not significant.				Rainfall record incomplete.						

WHEAT POOL DISTRICT 14

KENNETH W. KENASCHUK, WATSON										
3D.....	14	3	Garry.....	93.3	96	36	2.3	40	3 C.W.	W.
			Rodney.....	96.1	96	36	2.5	41	3 C.W.	W.
			Exeter.....	97.1	96	36	2.8	38	3 C.W.	W.
			Fundy.....	91.4	87	38	2.3	36	3 C.W.	W.
			Glen.....	91.7	90	37	2.5	37	3 C.W.	W.
Yield differences not significant.			Rainfall—May to August 7.77 inches.							
RAYMOND D. HANSON, ROSE VALLEY										
3D.....	14	4	Garry.....	28.8	93	37	5.0	37	1 Fd.	W.
			Rodney.....	42.6	97	41	9.0	38	Ex. 1 Fd.	W.
			Exeter.....	38.3	96	32	3.0	37	1 Fd.	W.
			Fundy.....	33.0	89	39	6.0	35	1 Fd.	W.
			Glen.....	36.0	91	35	7.0	35	1 Fd.	W.
Necessary difference—4.86 bushels.			Rainfall record incomplete.							

WHEAT POOL DISTRICT 15

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DENNIS WOZNIK, BLAINE LAKE									
3G.....15	5	Garry.....	56.5	—	—	—	37	1 Fd.	W.
		Rodney.....	60.4	—	—	—	39	Ex. 1 Fd.	W.
		Exeter.....	56.4	—	—	—	39	Ex. 1 Fd.	W.
		Fundy.....	60.9	—	—	—	35	1 Fd.	W.
		Glen.....	69.5	—	—	—	36	1 Fd.	W.

Yield differences not significant. Rainfall—May to August 4.37 inches.

ALBERT BEULAC, ELDRED									
4B.....15	7	Garry.....	15.9	—	22	2.0	38	Ex. 1 Fd.	W.
		Rodney.....	16.2	—	15	2.0	41	Ex. 1 Fd.	W.
		Exeter.....	18.6	—	17	2.0	38	Ex. 1 Fd.	W.
		Fundy.....	19.1	—	22	2.0	37	1 Fd.	W.
		Glen.....	17.7	—	22	2.0	36	1 Fd.	W.

Test damaged by animals—yields not included in zone summary. Rainfall—May to August 8.19 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3J.....15	6	Marvin Steffen, Ordale.
3J.....15	9	Brian Pease, Prince Albert.

WHEAT POOL DISTRICT 16

GLENN W. QUICK, RADISSON									
3G.....16	1	Garry.....	—	—	—	—	35	1 Fd.	G.
		Rodney.....	—	—	—	—	30	2 Fd.	—
		Exeter.....	—	—	—	—	28	2 Fd.	—
		Fundy.....	—	—	—	—	33	2 Fd.	—
		Glen.....	—	—	—	—	35	1 Fd.	G.

Test damaged by animals—yields not reliable. Rainfall record incomplete.

GORDON K. JACKSON, SPEERS									
3G.....16	2	Garry.....	41.8	92	27	2.0	38	Ex. 1 Fd.	W.
		Rodney.....	44.7	92	25	2.0	40	Ex. 1 Fd.	W.
		Exeter.....	40.6	92	26	3.0	38	Ex. 1 Fd.	G.
		Fundy.....	43.2	94	28	2.0	36	1 Fd.	W.
		Glen.....	45.5	90	28	2.0	37	1 Fd.	W.

Yield differences not significant. Rainfall—May to August 5.19 inches.

RUDOLPH W. PETERS, RABBIT LAKE									
4B.....16	3	Garry.....	18.3	121	15	2.0	38	Ex. 1 Fd.	W.
		Rodney.....	17.0	122	14	2.0	40	Ex. 1 Fd.	W.
		Exeter.....	16.7	120	13	1.0	39	Ex. 1 Fd.	W.
		Fundy.....	17.7	121	21	3.0	38	Ex. 1 Fd.	W.
		Glen.....	19.9	120	22	3.0	38	Ex. 1 Fd.	W.

Yield differences not significant. Rainfall—May to August 6.09 inches.

VERNON E. IVERSON, MEOTA									
3E.....16	4	Garry.....	72.3	99	28	3.3	38	Ex. 1 Fd.	G.
		Rodney.....	82.0	99	29	3.8	40	Ex. 1 Fd.	G.
		Exeter.....	81.6	99	27	5.0	38	Ex. 1 Fd.	G.
		Fundy.....	80.8	93	32	2.0	34	1 Fd.	G.
		Glen.....	85.9	99	30	3.5	36	1 Fd.	G.

Yield differences not significant. Rainfall—May to August 9.17 inches.

KEN W. WESSON, MAIDSTONE									
3E.....16	5	Garry.....	55.1	111	30	1.0	41	Ex. 1 Fd.	W.
		Rodney.....	57.1	112	30	1.0	42	Ex. 1 Fd.	G.
		Exeter.....	61.9	113	31	1.0	39	Ex. 1 Fd.	G.
		Fundy.....	60.3	107	30	1.0	39	Ex. 1 Fd.	G.
		Glen.....	59.5	111	29	1.0	38	Ex. 1 Fd.	G.

Yield differences not significant. Rainfall—May to August 10.42 inches.

HELEN DAVIS AND DONNA LONG, FURNESS									
3E.....16	6	Garry.....	31.5	—	26	1.0	39	Ex. 1 Fd.	W.
		Rodney.....	32.6	—	25	1.3	39	Ex. 1 Fd.	W.
		Exeter.....	29.0	—	24	1.3	38	Ex. 1 Fd.	W.
		Fundy.....	28.7	—	25	1.8	38	Ex. 1 Fd.	W.
		Glen.....	30.4	—	24	2.0	37	1 Fd.	W.

Yield differences not significant. Rainfall—May to August 9.75 inches.

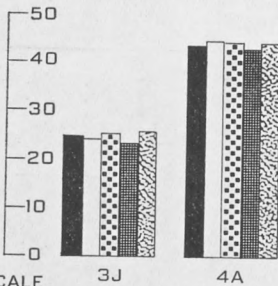
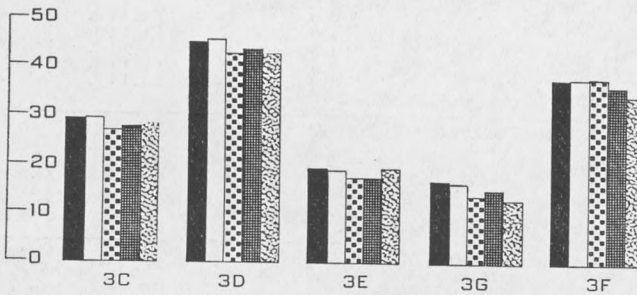
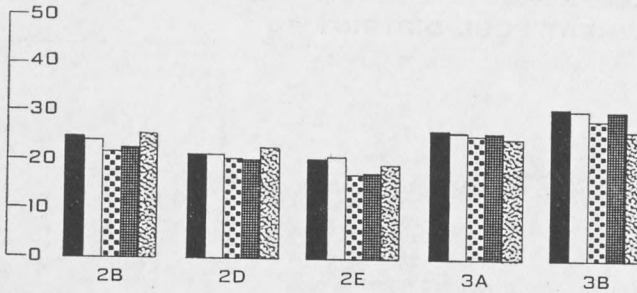
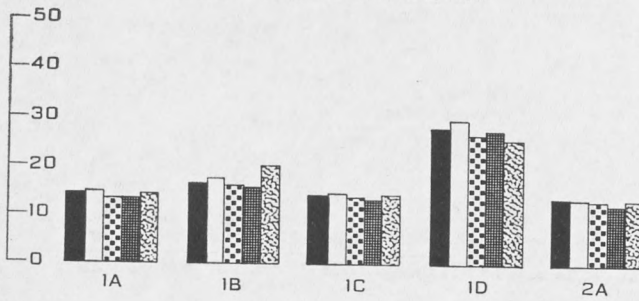
FRANCIS L. ARLETT, LOON LAKE									
3H.....16	11	Garry.....	102.3	100	37	1.0	40	Ex. 1 Fd.	W.
		Rodney.....	114.6	100	38	1.0	42	Ex. 1 Fd.	W.
		Exeter.....	95.1	105	39	1.8	40	Ex. 1 Fd.	W.
		Fundy.....	88.9	92	38	1.0	39	Ex. 1 Fd.	W.
		Glen.....	107.2	97	38	1.0	39	Ex. 1 Fd.	W.

Necessary difference—12.57 bushels. Rainfall—May to August 10.31 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

4B.....16	9	Fred Gatzke, Belbutte.
4B.....16	10	Maurice Doucette, Laventure.

Graphs showing wheat yields in 1959.



SCALE
IN
BUSHELS

LEGEND:

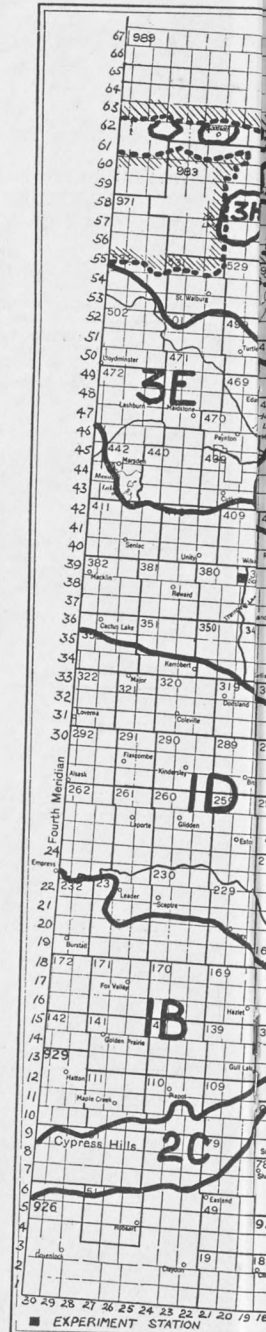
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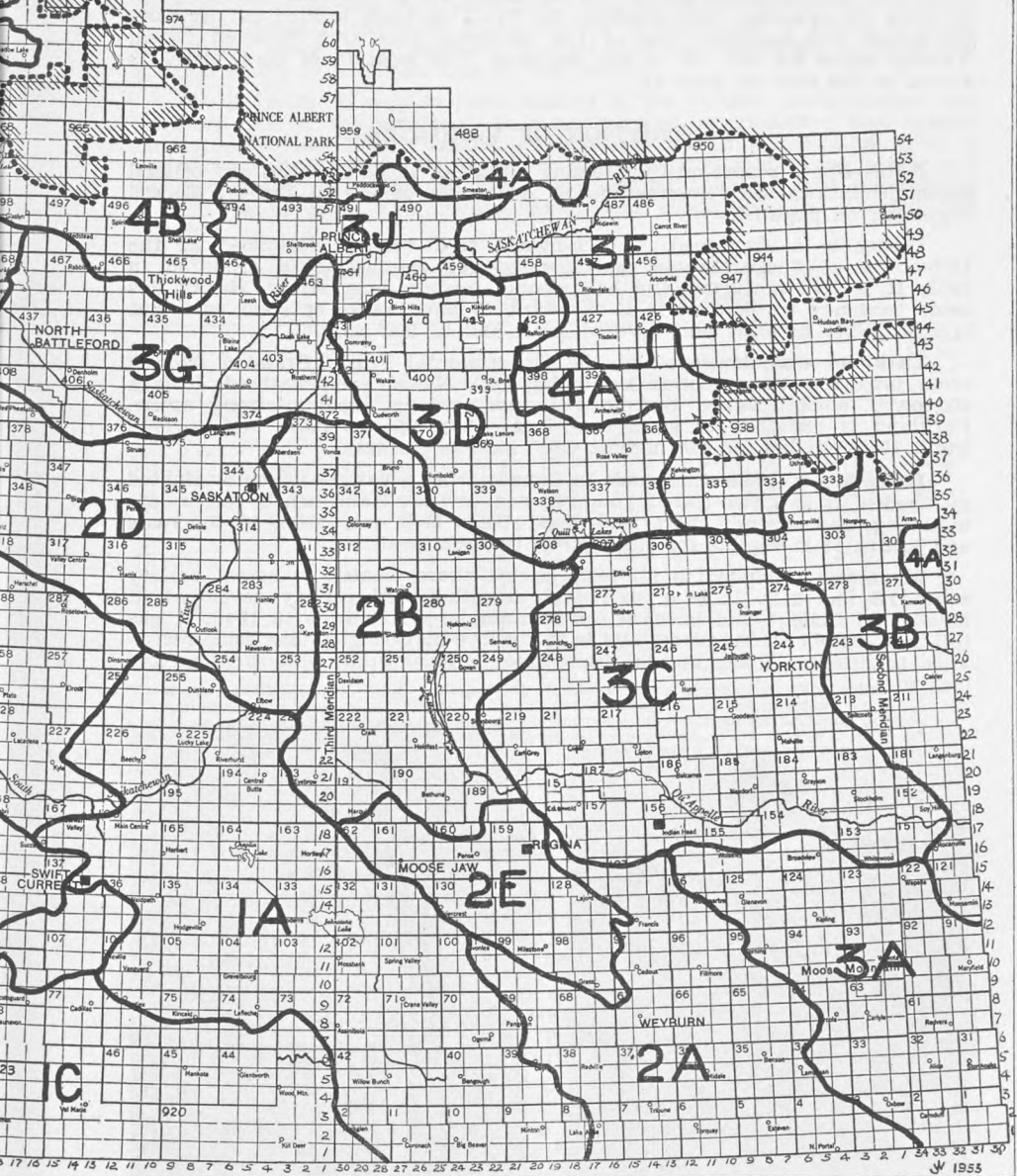
PEMBINA

LAKE



NOTE: This map

CEREAL VARIETY ZONES OF SASKATCHEWAN



This map is not fully up to date in the numbers and boundaries of municipalities and local improvement districts owing to changes that are being made.

BARLEY TESTS

A total of 120 barley tests were seeded in 1959. Each of these included five varieties. Husky, Parkland and Hannchen were grown in tests in all parts of the province. Montcalm was included in tests in all zones except 1B and 1C. In these two zones it was replaced by Compana. Vantage was grown in tests in the west, south-west and west-central part of the province. This area included Cereal Variety Zones 1A to 2D with the exception of Zone 2A. Vantage was replaced by Traill in tests located in the east, north-east and northern part of the province. This area included Cereal Variety Zones 2A and 2E to 4B, inclusive. The location of these zones is shown on the map on page 49.

DESCRIPTION OF VARIETIES

Note—For a report on the yielding ability of these varieties and official recommendations see “Summarization According to Cereal Variety Zones” beginning on page 55.

Husky is a six-rowed, smooth-awned feed variety developed at the University of Saskatchewan and licensed for commercial distribution in 1953. It is late maturing and has strong, medium-long straw. Husky has some tendency to shatter. It is resistant to most races of stem rust, but is susceptible to loose and covered smut and to leaf rust.

Parkland was developed at the Experimental Farm, Brandon from a cross involving the varieties Montcalm, Olli, Newal and Peatland. It is a six-rowed, smooth-awned variety with medium-long, medium-strong straw. Parkland is resistant to stem rust, but susceptible to loose and covered smut. It is eligible for the highest C.W. six-row grades.

Hannchen is a selection made in Canada from a variety which originated in Sweden. It is a two-rowed, rough-awned variety. Hannchen is rather late maturing, and has mid-short, mid-weak straw. It is susceptible to the rusts and smuts. It is eligible for the highest two-row grades.

Montcalm (included in all tests except those located in cereal variety zones 1B and 1C). It is a six-rowed, smooth-awned variety developed at Macdonald College and licensed for commercial distribution in 1945. It has tall, moderately strong straw and is fairly late maturing. It has some resistance to covered smut, but is susceptible to loose smut and to stem and leaf rust.



Dianne Punter of LaPorte shows the heavy stand of barley in her test.



Pearl Johnson stands in the border path around her barley test at Demaine.

Compana (included only in tests located in cereal variety zones 1B and 1C). It is a two-rowed, smooth-awned variety developed by the United States Department of Agriculture. It was licensed for commercial distribution in 1949. It has rather short, weak straw. Compana is not eligible for grades higher than 3 C.W. two-row.

Vantage (included only in tests located in the south, south-west and west-central portion of the province). It is a six-rowed, smooth-awned, medium-late maturing feed variety. It was developed at the Experimental Farm at Brandon from the cross (Newal X Peatland) X Plush. Vantage has strong straw. It is resistant to stem rust but susceptible to loose and covered smut, to leaf rust and to leaf blotch.

Traill (included only in tests located in the eastern, north-eastern and northern part of the province). It is a six-rowed, rough-awned feed variety developed at the North Dakota Agricultural Experiment Station from a cross between Kindred and Titan. It has mid-long, mid-strong straw and the heads are semi-nodding. Traill is resistant to stem rust, moderately susceptible to loose and covered smut and susceptible to speckled leaf blotch.

**Table No. 39—Average Yields in Bushels Per Acre
Summarized by Cereal Variety Zones**

Cereal** Variety Zone	No. of Satis- factory Tests	Husky	Park- land	Hann- chen	Mont- calm	Com- pana	Van- tage	Traill	Necessary Differ- ence in Bus.
1A.....	13	27.2	26.1	30.4	26.6	—	29.8	—	1.82
1B.....	5	37.4	32.3	38.3	—	41.2	40.1	—	1.96
1C.....	7	31.4	28.6	38.0	—	35.1	33.7	—	2.49
1D.....	8	40.0	33.4	38.5	38.2	—	39.2	—	2.00
2A.....	4	26.0	21.5	33.8	22.5	—	—	24.4	2.29
2B.....	6	72.4	59.7	63.5	65.7	—	68.1	—	3.80
2D.....	11	32.8	28.4	34.5	29.5	—	31.9	—	1.70
2E.....	3	37.4	28.1	40.4	35.3	—	—	34.8	N.S.
3A.....	4	47.1	45.4	49.3	48.4	—	—	47.2	2.87
3B.....	4	69.3	52.8	64.4	59.9	—	—	63.0	4.72
3C.....	4	45.9	37.2	48.4	43.7	—	—	40.5	3.66
3D.....	4	47.8	41.1	50.4	42.7	—	—	40.7	3.56
3F.....	3	83.7	65.8	74.4	73.5	—	—	71.0	5.28
3G.....	4	37.1	26.0	44.9	29.2	—	—	28.8	2.35
3J.....	2	55.5	47.4	58.1	43.6	—	—	43.8	N.S.
4A.....	4	59.0	51.8	57.7	52.9	—	—	52.3	3.64

***Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone.

N.S.—Yield differences not significant.

**See zone map, page 49.

Table No. 39. Zones 1A, 1D, 2B, 2D. On an average basis **Husky** produced the highest yields in this area, placing first in two zones, second in one, and third in the remaining one. **Hannchen** and **Vantage** both yielded well in this area, with neither variety showing consistent superiority. **Montcalm** yielded moderately well in this area, placing third in one zone and fourth in the remaining three. **Parkland** was outyielded by the other four varieties tested in all four of these zones.

Zones 1B and 1C. In this area **Compana** yielded well, placing first in one zone and second in the other. **Hannchen** also yielded well, placing first in one zone and third in the other. **Vantage** placed second in one zone and third in the other. **Husky** placed fourth in both zones and **Parkland** ranked fifth in both.

Zones 2A and 2E to 4A inclusive. **Hannchen** yielded well throughout this area in 1959. It ranked first in yield in seven of the ten zones, and placed second in the remaining three. **Husky** also yielded well in this area. It ranked first in three zones, second in six zones, and fourth in the remaining one. The placing of **Montcalm** varied from zone to zone in this area but it was generally lower in yield than **Hannchen** and **Husky**. **Traill** did not produce outstanding yields in 1959 and on an average basis placed fourth. **Parkland**

was generally lower in yield than the other four varieties tested, placing fifth in eight of the ten zones in this area.

**Table No. 40—Average Number of Days from Seeding to Ripening
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Parkland	Hannchen	Montcalm	Compana	Vantage	Trall
1A.....	96.3	96.3	95.7	95.9	—	95.7	—
1B.....	84.0	83.5	81.5	—	82.0	83.5	—
1C.....	99.8	99.3	99.3	—	97.8	98.3	—
1D.....	95.8	96.2	93.0	96.6	—	96.2	—
2A.....	84.0	83.0	83.0	83.0	—	—	82.0
2B.....	97.2	97.4	98.0	97.8	—	97.2	—
2D.....	92.3	90.4	91.4	90.6	—	90.0	—
2E.....	99.0	99.0	97.0	96.0	—	—	98.0
3A.....	87.0	86.0	87.7	86.0	—	—	86.7
3B.....	90.5	89.5	88.0	90.5	—	—	88.0
3C.....	100.0	97.0	99.0	98.0	—	—	98.0
3D.....	97.5	95.3	98.8	93.8	—	—	93.8
3F.....	97.0	96.0	95.5	95.5	—	—	95.0
3G.....	106.0	105.7	106.0	102.7	—	—	104.3
3J.....	105.5	105.5	108.5	105.5	—	—	100.5
4A.....	94.5	91.5	93.0	92.5	—	—	89.0

Table No. 40. Zones 1A, 1D, 2B, 2D. There was considerable variation from zone to zone in the order in which these five varieties matured. **Vantage** ripened earliest on an average basis, followed by **Hannchen**. **Parkland** and **Husky** were about equal and **Montcalm** was usually the latest maturing.

Zones 1B and 1C. **Compana** was somewhat earlier than the other four varieties on an average basis. **Hannchen** placed second on an average basis followed by **Vantage**. **Husky** and **Parkland** were later maturing.

Zones 2A and 2E to 4A. **Trall** was generally earlier than the other four varieties tested in this area. **Montcalm** placed second on an average basis, followed by **Parkland**, **Hannchen** and **Husky** in that order.

**Table No. 41—Average Height of Plants In Inches
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Parkland	Hannchen	Montcalm	Compana	Vantage	Trall
1A.....	21.3	22.9	19.9	24.4	—	22.0	—
1B.....	25.0	26.0	24.3	—	20.5	25.3	—
1C.....	28.8	30.6	27.2	—	23.0	29.0	—
1D.....	25.8	27.1	24.3	28.8	—	26.3	—
1A.....	22.3	25.0	24.3	29.0	—	—	24.0
2B.....	28.5	30.8	25.7	31.7	—	29.5	—
2D.....	23.0	25.0	22.6	27.1	—	25.3	—
2E.....	23.0	22.0	24.0	27.0	—	—	22.0
3A.....	23.3	24.0	22.0	26.7	—	—	24.0
3B.....	31.7	31.0	30.3	33.0	—	—	30.0
3C.....	26.0	29.0	26.0	32.5	—	—	28.0
3D.....	24.5	24.8	25.5	27.3	—	—	24.8
3F.....	31.0	34.0	29.0	34.5	—	—	32.0
3G.....	23.0	23.7	23.0	25.0	—	—	21.7
3J.....	31.0	34.5	29.0	33.0	—	—	30.5
4A.....	25.0	25.0	24.5	25.5	—	—	26.0
4B.....	38.0	37.0	34.0	40.0	—	—	32.0

Table No. 41. Zones 1A, 1B, 1C, 1D. The order in which these varieties appear when listed according to plant height is quite consistent for the four zones. Almost without exception they appear in the following order from shortest to tallest: **Hannchen**, **Husky**, **Vantage**, **Parkland**, **Montcalm**.

Zones 1B and 1C. The placing of the five varieties with regard to height was identical for these two zones. **Compana** was the shortest variety followed by **Hannchen**, **Husky**, **Vantage** and **Parkland** in that order.

Zones 2A and 2E to 4B. In this area **Hannchen** was quite consistently shorter than the other four varieties while **Montcalm** was generally the tallest of the group. The other three varieties ranged in height between these two but showed considerable variation in their placing from one zone to another.

**Table No. 42—Average Straw Strength of Plants
On the Basis 1 (Strong) to 9 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Parkland	Hannchen	Montcalm	Compans	Vantage	Trall
1A.....	2.1	2.1	2.3	2.3	—	2.0	—
1B.....	2.5	1.9	1.7	—	2.4	2.4	—
1C.....	3.3	3.8	2.0	—	2.6	3.5	—
1D.....	2.0	2.2	1.7	1.9	—	2.0	—
2A.....	1.0	1.0	1.5	1.0	—	—	1.0
2B.....	2.2	2.9	3.8	3.1	—	2.1	—
2D.....	1.7	2.0	1.5	1.8	—	1.7	—
2E.....	2.5	1.8	2.3	2.3	—	—	1.3
3A.....	2.4	2.1	4.2	2.5	—	—	2.3
3B.....	2.4	2.9	4.4	4.8	—	—	2.6
3C.....	1.5	1.9	1.5	1.9	—	—	1.2
3D.....	1.8	2.3	4.2	2.3	—	—	1.6
3F.....	2.0	2.0	8.8	3.5	—	—	4.7
3G.....	2.0	1.5	2.8	2.7	—	—	2.3
3J.....	2.1	2.6	2.9	2.6	—	—	2.8
4A.....	1.5	1.7	1.9	2.0	—	—	2.4

Table No. 42. Zones 1A, 1B, 1C, 1D. None of the five varieties tested in this area showed any appreciable weakness of straw in 1959. The differences among varieties were so small they would have little economic importance.

Zones 1B and 1C. All five of the varieties tested in this area had quite satisfactory straw strength with only minor differences among varieties.

Zones 2A and 2E to 4A. **Husky** and **Parkland** had quite satisfactory straw strength throughout this area. **Montcalm** showed some tendency to weakness in Zone 3B, while **Trall** showed weakness in Zone 3F. **Hannchen** showed straw weakness in several zones in the north-east part of the province where this weakness might be an important fault.

**Table No. 43—Average Neck Strength of Plants
On the Basis 1 (Strong) to 3 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Parkland	Hannchen	Montcalm	Compans	Vantage	Trall
1A.....	1.6	2.1	1.7	2.2	—	1.6	—
1B.....	2.2	2.3	2.0	—	1.5	1.3	—
1C.....	1.9	2.1	1.3	—	1.3	1.7	—
1D.....	2.0	2.2	1.9	2.1	—	1.6	—
2A.....	1.7	1.9	1.4	1.4	—	—	2.4
2B.....	1.7	1.9	1.6	1.8	—	1.4	—
2D.....	2.1	2.1	1.5	2.0	—	1.4	—
2E.....	1.0	1.8	2.0	2.3	—	—	2.8
3A.....	1.8	2.0	2.3	2.2	—	—	2.0
3B.....	1.4	1.6	1.5	1.4	—	—	1.5
3C.....	2.0	2.0	1.4	1.9	—	—	2.0
3D.....	2.0	1.8	2.1	2.2	—	—	1.9
3F.....	2.0	2.5	2.0	2.0	—	—	2.0
3G.....	1.6	1.7	1.5	2.0	—	—	1.7
3J.....	1.5	1.8	1.8	1.7	—	—	2.2
4A.....	1.5	2.0	1.5	2.0	—	—	1.5

Table No. 43. Zones 1A, 1B, 2B, 2D. Of the five varieties tested in this area, **Vantage** showed consistently good neck strength, while **Montcalm** showed the least strength. The remaining three varieties fell between these two but were not consistent for all zones.

Zones 1B and 1C. In this area **Parkland** showed some tendency to weakness but the other four varieties were quite satisfactory.

Zones 2A and 2E to 4A. No single statement can be made which will indicate the relative neck strength of the varieties in this area. The placing of varieties was not consistent for all zones but none of the varieties showed weakness which could be considered a serious fault.

**Table No. 44—Average Weight Per Measured Bushel
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Parkland	Hannchen	Montcalm	Compana	Vantage	Trall
1A.....	43.4	45.6	48.8	45.5	—	44.3	—
1B.....	42.6	45.2	48.2	—	46.4	44.2	—
1C.....	42.5	44.8	47.1	—	46.6	42.5	—
1D.....	45.0	46.9	49.7	46.9	—	46.4	—
2A.....	43.4	45.0	49.4	45.0	—	—	44.4
2B.....	48.0	49.0	50.8	49.4	—	47.9	—
2D.....	45.5	46.9	50.4	46.5	—	45.6	—
2E.....	45.0	48.0	49.7	46.3	—	—	48.7
3A.....	45.0	45.3	49.3	46.3	—	—	46.0
3B.....	44.8	46.8	48.3	45.8	—	—	45.5
3C.....	45.5	47.5	49.8	47.8	—	—	49.0
3D.....	46.3	47.3	51.0	47.8	—	—	46.8
3F.....	48.8	50.3	52.0	49.5	—	—	49.8
3G.....	48.4	49.8	51.6	48.8	—	—	49.2
3J.....	49.0	50.7	52.3	49.7	—	—	49.7
4A.....	41.5	44.5	45.0	42.8	—	—	45.0
4B.....	45.0	48.0	48.0	46.0	—	—	47.0

Table No. 44. Zones 1A, 1D, 2B, 2D. **Hannchen** had the heaviest bushel weight of the five varieties tested in this area. On an average basis **Parkland** placed second, followed by **Montcalm**. **Vantage** and **Husky** placed fourth and fifth respectively on an average basis.

Zones 1B and 1C. **Hannchen** produced the heaviest bushel weight of the five varieties tested in this area. **Compana** ranked second, while **Parkland**, **Vantage** and **Husky** placed third, fourth and fifth in that order.

Zones 2A and 2E to 4B. **Hannchen** consistently outweighed the other four varieties tested in this area. **Husky** had the lowest bushel weight in all zones. The remaining three varieties ranged between these two extremes and their placing varied from one zone to another.

**Table No. 45—Percentage of Commercial Grades by Varieties
(Zones 1A, 1D, 2B, 2D)**

Variety	1 C.W. 6R %	2 C.W. 6R %	3 C.W. 6R %	1 C.W. 2R %	2 C.W. 2R %	3 C.W. 2R %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	—	—	—	48.9	30.2	20.9
Parkland.....	20.9	16.3	25.6	—	—	—	—	27.9	9.3
Hannchen.....	—	—	—	23.3	37.2	25.6	9.3	2.3	2.3
Montcalm.....	16.3	20.9	34.9	—	—	—	—	18.6	9.3
Vantage.....	—	—	—	—	—	—	51.2	27.9	20.9

Table No. 45. Zones 1A, 1D, 2B, 2D. Because of the different types of barley included in these tests it is not possible to make a direct comparison of the five varieties. **Parkland** and **Montcalm** are the only six-rowed varieties eligible for the C.W. grades. **Parkland** graded slightly better than **Montcalm**, with nearly 21 percent of the samples falling in the top grade compared to 16 percent for **Montcalm**. **Hannchen** is the only variety eligible for the two-row grades. Of the feed varieties, **Vantage** with 51 percent of the samples grading One Feed, graded slightly better than **Husky** which had nearly 49 percent of the samples in this grade.

(Zones 1B and 1C)

Variety	1 C.W. 6R %	2 C.W. 6R %	3 C.W. 6R %	1 C.W. 2R %	2 C.W. 2R %	3 C.W. 2R %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	—	—	—	30.8	15.4	53.8
Parkland.....	30.8	7.7	7.7	—	—	—	—	7.7	46.1
Hannchen.....	—	—	—	38.4	—	15.4	7.7	23.1	15.4
Compana.....	—	—	—	—	—	38.4	15.4	23.1	23.1
Vantage.....	—	—	—	—	—	—	38.5	7.7	53.8

Zones 1B and 1C. Of the five varieties tested in this zone, only **Parkland** is eligible for the C.W. six-row grades. **Hannchen** is eligible for the highest C.W. two-row grades while **Compana** is not eligible for grades higher than 3 C.W. two-row. Of the two feed varieties, **Vantage** graded higher than

Husky, with 38½ percent of the samples falling in the top feed grade, compared with nearly 31 percent in the case of **Husky**.

Percentage of Commercial Grades By Varieties
(Zones 2A, 2E to 4B)

Variety	1 C.W. 6R %	2 C.W. 6R %	3 C.W. 6R %	1 C.W. 2R %	2 C.W. 2R %	3 C.W. 2R %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	—	—	—	51.2	29.3	17.1
Parkland.....	7.3	14.6	31.7	—	—	—	17.1	17.1	9.8
Hannchen.....	—	—	—	14.6	39.0	17.1	17.1	4.9	4.9
Montcalm.....	7.3	14.7	26.8	—	—	—	17.1	24.4	7.3
Trall.....	—	—	—	—	—	—	68.3	22.0	7.3

Zones 2A and 2E to 4B. As mentioned above, because of the different types of barley included in these tests, it is not possible to make a direct comparison of the five varieties. **Parkland** and **Montcalm** are the only varieties eligible for the C.W. six-row grades. The percentage of samples of these two varieties falling in 1 C.W. and 2 C.W. is almost identical for both varieties, but in the 3 C.W. grade there is a slight margin in favor of **Parkland**. **Hannchen** is the only two-row variety tested in this area. Of the two feed varieties, **Trall**, with 68 percent of the samples falling in 1 Feed, graded better than **Husky**, with 51 percent in that grade.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 46—Summarized Results for Zone 1A
(13 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Vantage
Yield in bushels per acre*	27.2	26.1	30.4	26.6	29.8
Days from seeding to ripening.....	96.3	96.3	95.7	95.9	95.7
Height of plants in inches.....	21.3	22.9	19.9	24.4	22.0
Straw strength (basis 1—strong to 9—weak).....	2.1	2.1	2.3	2.3	2.0
Neck Strength (basis 1—strong, 2—medium, 3—weak).....	1.6	2.1	1.7	2.2	1.6
Bushel weight in pounds.....	43.4	45.6	48.8	45.5	44.3
Commercial grades in percentage: 2 C.W. 6R.....	—	14.3	—	7.2	—
3 C.W. 6R.....	—	50.0	—	57.1	—
2 C.W. 2R.....	—	—	57.1	—	—
3 C.W. 2R.....	—	—	28.6	—	—
1 Feed.....	21.4	—	7.1	—	42.9
2 Feed.....	50.0	21.4	—	21.4	35.7
3 Feed.....	28.6	14.3	7.2	14.3	21.4

*Necessary difference—1.82 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Hannchen placed first in yield in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years. However, in other tests conducted over a period of years it has not produced outstanding yields. It has rather weak straw under some conditions and is not officially recommended.

Vantage placed second in yield in this zone in 1959. It placed first in 1955 and 1958 and second in both 1956 and 1957. **Vantage** is well adapted to this area and is officially recommended.

Husky placed third in this zone in 1959. During several previous years it yielded quite well. It placed second in 1955, first in 1956 and 1957 and tied for second place in 1958. However, it has a tendency to shatter and is not officially recommended.

Montcalm placed fourth in this zone in 1959. In the previous year it tied for second place. It is not officially recommended for this zone.

Parkland was outyielded by the other four varieties tested in this zone in 1959. It placed fifth in 1957 and 1958 as well. **Parkland** is not officially recommended for this zone.

Table No. 47—Summarized Results for Zone 1B

(5 successful tests)

	Husky	Parkland	Hannchen	Compana	Vantage
Yield in bushels per acre*	37.4	32.3	38.3	41.2	40.1
Days from seeding to ripening	84.0	83.5	81.5	82.0	83.5
Height of plants in inches	25.0	26.0	24.3	20.5	25.3
Straw strength (basis 1—strong to 9—weak)	2.5	1.9	1.7	2.4	2.4
Neck strength (basis 1—strong, 2—medium, 3—weak)	2.2	2.3	2.0	1.5	1.3
Bushel weight in pounds	42.6	45.2	48.2	46.4	44.2
Commercial grades in percentage:					
1 C.W. 6R	—	40.0	—	—	—
1 C.W. 2R	—	—	40.0	—	—
3 C.W. 2R	—	—	20.0	40.0	—
1 Feed	40.0	—	20.0	—	40.0
2 Feed	—	20.0	20.0	40.0	20.0
3 Feed	60.0	40.0	—	20.0	40.0

*Necessary difference—1.96 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Compana outyielded the other four varieties tested in this zone in 1959. It has not been tested by the Wheat Pool in recent years but in other tests in this area it has yielded well. It is officially recommended for the zone.

Vantage placed second in this zone in 1959. It placed first in yield in three of the previous four years in this zone. Vantage is well adapted to this area and is officially recommended.

Hannchen placed third in this zone in 1959. It has not been tested in this zone by the Wheat Pool in recent years. In other tests it has not produced outstanding results and is not officially recommended.

Husky ranked fourth in this zone in 1959. Its yield in previous years has been rather variable. Husky is not officially recommended.

Parkland was outyielded by the other four varieties tested in this zone in 1959. Its yield in this zone in previous years has been variable but generally not outstanding. It is not recommended for the zone.

Table No. 48—Summarized Results for Zone 1C

(7 successful tests)

	Husky	Parkland	Hannchen	Compana	Vantage
Yield in bushels per acre*	31.4	28.6	38.0	35.1	33.7
Days from seeding to ripening	99.8	99.3	99.3	97.8	98.3
Height of plants in inches	28.8	30.6	27.2	23.0	29.0
Straw strength (basis 1—strong to 9—weak)	3.3	3.8	2.0	2.6	3.5
Neck strength (basis 1—strong, 2—medium, 3—weak)	1.9	2.1	1.3	1.3	1.7
Bushel weight in pounds	42.5	44.8	47.1	46.6	42.5
Commercial grades in percentage:					
1 C.W. 6R	—	25.0	—	—	—
2 C.W. 6R	—	12.5	—	—	—
3 C.W. 6R	—	12.5	—	—	—
1 C.W. 2R	—	—	37.5	—	—
3 C.W. 2R	—	—	12.5	37.5	—
1 Feed	25.0	—	—	25.0	37.5
2 Feed	25.0	—	25.0	12.5	—
3 Feed	50.0	50.0	25.0	25.0	62.5

*Necessary difference—2.49 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Hannchen placed first in yield in this zone in 1959. It has not been tested in this zone by the Wheat Pool in recent years. However, in other tests it has not produced outstanding results in this area. It is not officially recommended for the zone.

Compana placed second in yield in this zone in 1959. It has not been tested by the Wheat Pool in recent years. However, in other tests it has yielded well in this zone and it is officially recommended.

Vantage placed third in this zone in 1959. In each of the previous four years it was the highest yielding variety in this zone. It is officially recommended.

Husky placed fourth in this zone in 1959. It placed fifth in the previous year, third in 1957, second in 1956 and tied for second place in 1955. Husky has some tendency to shatter and is not officially recommended for the zone.

Parkland was outyielded by the other four varieties tested in this zone in 1959. It placed second in 1958, fifth in each of the two previous years and tied for second place in 1955. Parkland is not officially recommended for this zone.

Table No. 49—Summarized Results for Zone 1D
(8 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Vantage
Yield in bushels per acre*	40.0	33.4	38.5	38.2	39.2
Days from seeding to ripening.....	95.8	96.2	93.0	96.6	96.2
Height of plants in inches.....	25.8	27.1	24.3	28.8	26.3
Straw Strength (basis 1—strong to 9—weak).....	2.0	2.2	1.7	1.9	2.0
Neck strength (basis 1—strong, 2—medium, 3—weak).....	2.0	2.2	1.9	2.1	1.6
Bushel weight in pounds.....	45.0	46.9	49.7	46.9	46.4
Commercial grades in percentage:					
1 C.W. 6R.....	—	33.3	—	22.2	—
2 C.W. 6R.....	—	22.3	—	33.4	—
3 C.W. 6R.....	—	—	—	11.1	—
1 C.W. 2R.....	—	—	44.5	—	—
2 C.W. 2R.....	—	—	11.1	—	—
3 C.W. 2R.....	—	—	33.3	—	—
1 Feed.....	55.6	—	—	—	55.6
2 Feed.....	11.1	33.3	11.1	11.1	11.1
3 Feed.....	33.3	11.1	—	22.2	33.3

*Necessary difference—2.00 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Husky ranked first in yield in this zone in 1959. It produced variable results during the previous four years, placing fourth in 1956 and 1958, second in 1955 and first in 1957. Husky has some tendency to shatter and is not officially recommended for this zone.

Vantage placed second in this zone in 1959. It placed first in 1955 and 1958, second in 1957 and third in 1956. Vantage is officially recommended for this zone.

Hannchen placed third in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years. It has not produced outstanding results in other tests in this area and is not officially recommended.

Montcalm placed fourth in this zone in 1959. It placed second in this zone in 1958. Montcalm is not officially recommended for the zone.

Parkland was outyielded by the other four varieties tested in this zone in 1959. It is not officially recommended for the zone.

Table No. 50—Summarized Results for Zone 2A
(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Trall
Yield in bushels per acre*	26.0	21.5	33.8	22.5	24.4
Days from seeding to ripening.....	84.0	83.0	83.0	83.0	82.0
Height of plants in inches.....	22.3	25.0	22.3	29.0	24.0
Straw strength (basis 1—strong to 9—weak).....	1.0	1.0	1.5	1.0	1.0
Neck strength (basis 1—strong, 2—medium, 3—weak).....	1.7	1.9	1.4	1.4	2.4
Bushel weight in pounds.....	43.4	45.0	49.4	45.0	44.4
Commercial grades in percentage:					
3 C.W. 6R.....	—	20.0	—	20.0	—
1 C.W. 2R.....	—	—	20.0	—	—
2 C.W. 2R.....	—	—	60.0	—	—
3 C.W. 2R.....	—	—	20.0	—	—
1 Feed.....	20.0	—	—	—	20.0
2 Feed.....	40.0	80.0	—	80.0	60.0
3 Feed.....	40.0	—	—	—	20.0

*Necessary difference—2.29 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Hannchen ranked first in yield in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years but in other tests it

has not produced outstanding results. Hannchen is susceptible to rust and is not officially recommended for this zone.

Husky placed second in this zone in 1959. It placed fourth in 1958, first in 1956 and 1957 and second in 1955. Husky is officially recommended for the zone.

Trall placed third in this zone in 1959. It placed second in each of the two previous years. Trall appears to have some usefulness in this zone.

Montcalm placed fourth in this zone in 1959. It placed second in 1956, fifth in 1957 and first in 1958. It is not officially recommended for the zone.

Parkland was outyielded by the other four varieties tested in this zone in 1959. It placed first in 1955, third in 1956 and 1958 and fourth in 1957. Parkland is not officially recommended for the zone.

In addition to the recommended varieties mentioned above, Vantage and Vantmore are officially recommended.

Table No. 51—Summarized Results for Zone 2B
(6 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Vantage
Yield in bushels per acre*.....	72.4	59.7	63.5	65.7	68.1
Days from seeding to ripening.....	97.2	97.4	98.0	97.8	97.2
Height of plants in inches.....	28.5	30.8	25.7	31.7	29.5
Straw strength (basis 1—strong to 9—weak).....	2.2	2.9	3.8	3.1	2.1
Neck strength (basis 1—strong, 2—medium, 3—weak).....	1.4	1.9	1.6	1.8	1.4
Bushel weight in pounds.....	48.0	49.0	50.8	49.4	47.9
Commercial grades in percentage:					
1 C.W. 6R.....	—	50.0	—	62.5	—
3 C.W. 6R.....	—	25.0	—	25.0	—
1 C.W. 2R.....	—	—	37.5	—	—
2 C.W. 2R.....	—	—	25.0	—	—
3 C.W. 2R.....	—	—	12.5	—	—
1 Feed.....	75.0	—	25.0	—	75.0
2 Feed.....	25.0	25.0	—	12.5	12.5
3 Feed.....	—	—	—	—	12.5

*Necessary difference—3.80 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Husky outyielded the other four varieties tested in this zone in 1959. It placed third in 1958 and was the highest yielding variety in this zone in each of the three previous years. Husky is officially recommended for the zone.

Vantage ranked second in this zone in 1959. It placed first in 1958, second in 1956 and 1957 and third in 1955. Vantage is well adapted to this area and is officially recommended for the zone.

Montcalm placed third in this zone in 1959. It placed second in 1958. Because it is more susceptible to rust and has weaker straw than Parkland, Montcalm is not officially recommended for this zone.

Hannchen ranked fourth in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years but in other tests it has not produced outstanding yields. It is not officially recommended.

Parkland placed fifth in yield in this zone in 1959. It ranked second in 1955, fourth in 1956 and 1957, and fifth in 1958. However, this yield performance is offset by its rust resistance and greater straw strength than Montcalm. These characteristics are important in this area. Parkland is officially recommended for this zone.

Cereal Variety Zone 2C

No successful barley tests were located in this small zone in 1959. Vantage is the only variety officially recommended for the zone.

Table No. 52—Summarized Results for Zone 2D
(11 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Vantage
Yield in bushels per acre*	32.8	28.4	34.5	29.5	31.9
Days from seeding to ripening.....	92.3	90.4	91.4	90.6	90.0
Height of plants in inches.....	23.0	25.0	22.6	27.1	25.3
Straw strength (basis 1—strong to 9—weak).....	1.7	2.0	1.5	1.8	1.7
Neck strength (basis 1—strong, 2—medium, 3—weak).....	2.1	2.1	1.5	2.0	1.4
Bushel weight in pounds.....	45.5	46.9	50.4	46.5	45.6
Commercial grades in percentage:					
1 C.W. 6R.....	—	16.7	—	—	—
2 C.W. 6R.....	—	25.0	—	41.7	—
3 C.W. 6R.....	—	16.7	—	33.3	—
1 C.W. 2R.....	—	—	25.0	—	—
2 C.W. 2R.....	—	—	41.7	—	—
3 C.W. 2R.....	—	—	25.0	—	—
1 Feed.....	58.3	—	8.3	—	41.7
2 Feed.....	25.0	33.3	—	25.0	41.7
3 Feed.....	16.7	8.3	—	—	16.6

*Necessary difference—1.70 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Hannchen outyielded the other four varieties tested in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years but in other tests it has yielded well. It is officially recommended for the zone.

Husky ranked second in this zone in 1959. It ranked second in 1955 and 1958 as well and was the highest yielding variety in both 1956 and 1957. Husky is officially recommended for the zone.

Vantage placed third in this zone in 1959. It placed first in 1958, second in both 1956 and 1957, and third in 1955. Vantage is well adapted to this area and is officially recommended for the zone.

Montcalm placed fourth in this zone in 1959. It placed third in the previous year. Montcalm is not officially recommended for the zone.

Parkland ranked fifth in this zone in 1959. It placed first in 1955, fifth in 1956 and 1958 and third in 1957. Parkland is preferable to Montcalm because of its stronger straw. It is officially recommended for this zone.

Table No. 53—Summarized Results for Zone 2E
(3 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Trall
Yield in bushels per acre*	37.4	28.1	40.4	35.3	34.8
Days from seeding to ripening.....	99.0	99.0	97.0	96.0	98.0
Height of plants in inches.....	23.0	22.0	24.0	27.0	22.0
Straw strength (basis 1—strong to 9—weak).....	2.5	1.8	2.3	2.3	1.3
Neck strength (basis 1—strong, 2—medium, 3—weak).....	1.0	1.8	2.0	1.3	2.8
Bushel weight in pounds.....	45.0	48.0	49.7	46.3	48.7
Commercial grades in percentage:					
1 C.W. 6R.....	—	33.3	—	33.3	—
2 C.W. 6R.....	—	33.3	—	—	—
3 C.W. 6R.....	—	—	—	33.3	—
1 C.W. 2R.....	—	—	33.4	—	—
2 C.W. 2R.....	—	—	33.3	—	—
3 C.W. 2R.....	—	—	33.3	—	—
1 Feed.....	33.4	—	—	—	100.0
2 Feed.....	33.3	33.4	—	—	—
3 Feed.....	33.3	—	—	33.4	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Hannchen ranked first in yield in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years, but in other tests it has not produced outstanding results over a period of time. It is not officially recommended for the zone.

Husky placed second in this zone in 1959. It placed third in 1955, fifth in 1956 and first in 1957. Husky has not produced outstanding results in other tests in this zone and it has a tendency to shatter. It is not recommended for the zone.

Montcalm placed third in this zone in 1959. It placed fifth in 1957 and first in 1956. Montcalm's rather weak straw and susceptibility to rust are disadvantages in this zone. It is not officially recommended.

Traill placed fourth in this zone in 1959. It placed second in 1957. Further testing is required to accurately determine the adaptability of this variety in this zone.

Parkland was outyielded by the other four varieties tested in this zone in 1959. It placed second in 1955 and 1956 and third in 1957. It is not officially recommended for the zone.

The two varieties officially recommended for this zone are **Vantage** and **Vantmore**.

Table No. 54—Summarized Results for Zone 3A

(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Traill
Yield in bushels per acre*	47.1	45.4	49.3	48.4	47.2
Days from seeding to ripening	87.0	86.0	87.7	86.0	86.7
Height of plants in inches	23.3	24.0	22.0	26.7	24.0
Straw strength (basis 1—strong to 9—weak)	2.4	2.1	4.2	2.5	2.3
Neck strength (basis 1—strong, 2—medium, 3—weak)	1.8	2.0	2.3	2.2	2.0
Bushel weight in pounds	45.0	45.3	49.3	46.3	46.0
Commercial grades in percentage: 2 C.W. 6R	—	25.0	—	25.0	—
3 C.W. 6R	—	50.0	—	50.0	—
1 C.W. 2R	—	—	25.0	—	—
2 C.W. 2R	—	—	50.0	—	—
1 Feed	25.0	—	25.0	—	75.0
2 Feed	50.0	—	—	25.0	—
3 Feed	25.0	25.0	—	—	25.0

*Necessary difference—2.87 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Hannchen placed first in yield in this zone in 1959. It has not been tested by the Wheat Pool in this zone for a number of years, but in both 1950 and 1953 it was the lowest yielding of the four varieties tested. It has not yielded well in other tests in this zone over a period of years and is not officially recommended.

Montcalm placed second in this zone in 1959. It placed first in yield in 1956, fourth in 1957 and tied for second place in 1958. However, due to its susceptibility to rust and its tendency to lodge, it is not officially recommended for this zone.

Traill placed third in this zone in 1959. It placed third in 1957 and tied for second place in 1958. Traill appears to have some usefulness in this area but has not been tested sufficiently for an accurate recommendation to be made.

Husky placed fourth in this zone in 1959. Its performance in Wheat Pool tests in previous years varied considerably but in general it has yielded well over a long period. Husky is officially recommended for the zone.

Parkland ranked fifth in yield in this zone in 1959. It ranked first in 1955 and 1958, second in 1957 and fifth in 1958. Parkland is useful in this zone because of its rust resistance and is officially recommended for the zone.

In addition to the recommended varieties mentioned above, **Vantage** and **Vantmore** are also officially recommended.

Table No. 55—Summarized Results for Zone 3B

(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Traill
Yield in bushels per acre*	69.3	52.8	64.4	59.9	63.0
Days from seeding to ripening	90.5	89.5	88.0	90.5	88.0
Height of plants in inches	31.7	31.0	30.3	33.0	30.0
Straw strength (basis 1—strong to 9—weak)	2.4	2.9	4.4	4.8	2.6
Neck strength (basis 1—strong, 2—medium, 3—weak)	1.4	1.6	1.5	1.4	1.5
Bushel weight in pounds	44.8	46.8	48.3	45.8	45.5
Commercial grades in percentage: 1 C.W. 6R	—	25.0	—	25.0	—
3 C.W. 6R	—	25.0	—	—	—
2 C.W. 2R	—	—	25.0	—	—
3 C.W. 2R	—	—	25.0	—	—
1 Feed	50.0	25.0	25.0	25.0	50.0
2 Feed	25.0	—	25.0	25.0	25.0
3 Feed	25.0	25.0	—	25.0	25.0

*Necessary difference—4.72 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Husky placed first in this zone in 1959. It placed first in three of the previous four years. Husky is officially recommended for the zone.

Hannchen placed second in this zone in 1959. It has not been tested by the Wheat Pool in this zone for a number of years, but in other tests it has not produced outstanding results. Hannchen is not officially recommended for the zone.

Traill placed third in this zone in 1959. It placed second in 1957 and third in 1958. Traill appears to be adapted to this area but has not been tested sufficiently for a recommendation to be made.

Montcalm placed fourth in this zone in 1959. It placed third in 1956, fifth in 1957 and fourth in 1958. Montcalm is not recommended for this zone.

Parkland was the lowest yielding variety in this zone in 1959. However, in several previous years it performed relatively better, placing first in 1955, second in 1956, third in 1957 and fifth in 1958. Parkland is useful in this zone because of its rust resistance and its straw strength. It is officially recommended for the zone.

In addition to the recommended varieties discussed above, Vantage and Vantmore are also officially recommended.

Table No. 56—Summarized Results for Zone 3C

(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Traill
Yield in bushels per acre*	45.9	37.2	48.4	43.7	40.5
Days from seeding to ripening	100.0	97.0	99.0	98.0	98.0
Height of plants in inches	26.0	29.0	26.0	32.5	28.0
Straw strength (basis 1—strong to 9—weak)	1.5	1.9	1.5	1.9	1.2
Neck strength (basis 1—strong, 2—medium, 3 weak)	2.0	2.0	1.4	1.9	2.0
Bushel weight in pounds	45.5	47.5	49.8	47.8	49.0
Commercial grades in percentage: 2 C.W. 6R.	—	25.0	—	50.0	—
3 C.W. 6R.	—	50.0	—	25.0	—
1 C.W. 2R.	—	—	25.0	—	—
2 C.W. 2R.	—	—	50.0	—	—
1 Feed.	50.0	—	—	—	75.0
2 Feed.	50.0	25.0	25.0	25.0	25.0

*Necessary difference—3.66 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Hannchen placed first in yield in this zone in 1959. It has not been tested by the Wheat Pool in this zone for a number of years, but in other tests it has not produced outstanding results. It is not officially recommended for the zone.

Husky placed second in this zone in 1959. It placed first in 1957, tied for first place in 1958, and placed second in both 1955 and 1956. Husky is officially recommended for this zone.

Montcalm placed third in this zone in 1959. It placed first in 1956, tied for first place in 1958, and placed fourth in 1957. Its susceptibility to rust and its lack of straw strength are disadvantages in this zone and it is not officially recommended.

Traill placed fourth in this zone in both 1958 and 1959. It placed second in 1957. It does not appear particularly adapted to this zone.

Parkland placed fifth in this zone in 1958 and 1959. In previous years it yielded somewhat better, placing first in 1955, fourth in 1956, and third in 1957. Parkland is useful in this zone because of its rust resistance. It is officially recommended for the zone.

In addition to the recommended varieties discussed above, Vantage is also officially recommended.

Table No. 57—Summarized Results for Zone 3D

(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Trall
Yield in bushels per acre*	47.8	41.1	50.4	42.7	40.7
Days from seeding to ripening.....	97.5	95.3	98.8	93.8	93.8
Height of plants in inches.....	24.5	24.8	25.5	27.3	24.8
Straw strength (basis 1—strong to 9—weak).....	1.8	2.3	4.2	2.3	1.6
Neck strength (basis 1—strong, 2—medium, 3—weak).....	2.0	1.8	2.1	2.2	1.9
Bushel weight in pounds.....	46.3	47.3	51.0	47.8	46.8
Commercial grades in percentage:		50.0	100.0	50.0	—
2 C.W. 6R.....	—	25.0	—	25.0	—
2 C.W. 2R.....	—	—	—	—	—
1 Feed.....	25.0	—	—	—	50.0
2 Feed.....	75.0	25.0	—	25.0	50.0

*Necessary difference—3.56 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Hannchen outyielded the other four varieties tested in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years but in other tests it has yielded well and it is officially recommended for the zone.

Husky placed second in this zone in 1959. It placed first in each of the two previous years, third in 1956 and second in 1955. Husky is officially recommended for this zone.

Montcalm placed third in this zone in 1959. It placed second in 1956 and 1958, and fourth in 1957. Montcalm has weaker straw and less rust resistance than Parkland so it is not officially recommended for this zone.

Parkland ranked fourth in this zone in 1959. It placed fifth in 1958 but yielded somewhat better in several previous years, placing third in 1957, and first in both 1955 and 1956.

Trall was outyielded by the other four varieties tested in this zone in 1959. It performed somewhat better in the two previous years, placing second in 1957 and third in 1958. Trall has not been tested sufficiently for an accurate recommendation to be made.

Cereal Variety Zone 3E

No successful barley tests were located in this zone in 1959. Husky and Parkland are officially recommended for the zone.

Table No. 58—Summarized Results for Zone 3F

(3 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Trall
Yield in bushels per acre*	83.7	65.8	74.4	73.5	71.0
Days from seeding to ripening.....	97.0	96.0	95.5	95.5	95.0
Height of plants in inches.....	31.0	34.0	29.0	34.5	32.0
Straw strength (basis 1—strong to 9—weak).....	2.0	2.0	8.8	3.5	4.7
Neck strength (basis 1—strong, 2—medium, 3—weak).....	2.0	2.5	2.0	2.0	2.0
Bushel weight in pounds.....	48.8	50.3	52.0	49.5	49.8
Commercial grades in percentage:		25.0	—	—	—
2 C.W. 6R.....	—	25.0	—	50.0	—
1 C.W. 2R.....	—	—	25.0	—	—
3 C.W. 2R.....	—	—	25.0	—	—
1 Feed.....	50.0	25.0	25.0	25.0	75.0
2 Feed.....	25.0	—	—	—	—
Rejected.....	25.0	25.0	25.0	25.0	25.0

*Necessary difference—5.28 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Husky outyielded the other four varieties tested in this zone in 1959. It placed first in 1957 and second in both 1955 and 1956. Husky is well adapted to this area and is officially recommended.

Hannchen placed second in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years but has yielded well in other tests and is officially recommended.

Montcalm ranked third in this zone in 1959. It ranked third in 1957 and first in 1956. Montcalm is officially recommended for the zone.

Traill placed fourth in this zone in 1959. It placed fourth in 1957 as well. It does not appear particularly adapted to this area.

Parkland was outyielded by the other varieties tested in this zone in 1959. However, it performed somewhat better in previous years, placing first in 1955, fourth in 1956, and second in 1957. Parkland is officially recommended for the zone.

Table No. 59—Summarized Results for Zone 3G
(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Traill
Yield in bushels per acre*	37.1	26.0	44.9	29.2	28.8
Days from seeding to ripening.....	106.0	105.7	106.0	102.7	104.3
Height of plants in inches.....	23.0	23.7	23.0	25.0	21.7
Straw strength (basis 1—strong to 9—weak).....	2.0	1.5	2.8	2.7	2.3
Neck strength (basis 1—strong, 2—medium, 3—weak).....	1.6	1.7	1.5	2.0	1.7
Bushel weight in pounds.....	48.4	49.8	51.6	48.8	49.2
Commercial grades in percentage:					
3 C.W. 6R.....	—	60.0	—	60.0	—
2 C.W. 2R.....	—	—	40.0	—	—
3 C.W. 2R.....	—	—	20.0	—	—
1 Feed.....	100.0	40.0	40.0	40.0	100.0

*Necessary difference—2.35 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Hannchen placed first in yield in this zone in 1959. It has not been tested by the Wheat Pool in this zone for a number of years, but in other tests it has not produced outstanding results and it is not officially recommended.

Husky placed second in this zone in 1959. It placed first in three of the previous four years. Husky is well adapted to the area and is officially recommended for the zone.

Montcalm placed third in this zone in 1959. It placed third in both 1956 and 1958 and fourth in 1957. It has less straw strength than Parkland and is not officially recommended for this zone.

Traill placed fourth in this zone in 1959. It placed second in 1958 and third in 1957. It has not been tested sufficiently for an accurate recommendation to be made.

Parkland was outyielded by the other four varieties tested in this zone in 1959. Its performance in Wheat Pool tests in this zone has been variable, but in other tests it has yielded reasonably well and because it has stronger straw than Montcalm it is officially recommended.

Cereal Variety Zone 3H

No successful barley tests were located in this small zone in 1959. Husky and Parkland are officially recommended for the zone.

Table No. 60—Summarized Results for Zone 3J
(2 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Traill
Yield in bushels per acre*	55.5	47.4	58.1	43.6	43.8
Days from seeding to ripening.....	105.5	105.5	108.5	105.5	100.5
Height of plants in inches.....	31.0	34.5	29.0	33.0	30.5
Straw strength (basis 1—strong to 9—weak).....	2.1	2.6	2.9	2.6	2.8
Neck strength (basis 1—strong, 2—medium, 3—weak).....	1.5	1.8	1.8	1.7	2.2
Bushel weight in pounds.....	49.0	50.7	52.3	49.7	49.7
Commercial grades in percentage:					
3 C.W. 6R.....	—	33.3	—	33.3	—
1 C.W. 2R.....	—	—	33.3	—	—
3 C.W. 2R.....	—	—	33.3	—	—
1 Feed.....	100.0	33.4	33.4	33.4	100.0
2 Feed.....	—	—	—	33.3	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3J

Hannchen outyielded the other four varieties tested in this zone in 1959. It has not been tested by the Wheat Pool in this zone for a number of years, but in other tests it has not produced outstanding yields. It is not officially recommended for the zone.

Husky ranked second in this zone in 1959. It placed either first or second in this zone in each of the previous four years. Husky appears to be well adapted to this area and is officially recommended for the zone.

Parkland placed third in this zone in 1959. It placed second in two of the previous four years and fourth in the remaining two. Parkland is officially recommended for this zone.

Traill ranked fourth in this zone in 1959. It placed third in each of the two previous years. It does not appear adapted to this zone.

Montcalm was outyielded by the other four varieties tested in this zone in 1959. In the previous three years it showed a rather variable performance, placing first in one year, second in one year and fifth in one. In other tests in this zone it has not produced outstanding results and it is not officially recommended.

Table No. 61—Summarized Results for Zone 4A
(4 successful tests)

	Husky	Parkland	Hannchen	Montcalm	Traill
Yield in bushels per acre*	59.0	51.8	57.7	52.9	52.3
Days from seeding to ripening	94.5	91.5	93.0	92.5	89.0
Height of plants in inches	25.0	25.0	24.5	25.5	26.0
Straw strength (basis 1—strong to 9—weak)	1.5	1.7	1.9	2.0	2.4
Neck strength (basis 1—strong, 2—medium, 3—weak)	1.5	2.0	1.5	2.0	1.5
Bushel weight in pounds	41.5	44.5	45.0	42.8	45.0
Commercial grades in percentage:					
2 C.W. 6R	—	—	—	25.0	—
3 C.W. 6R	—	25.0	—	—	—
2 C.W. 2R	—	—	25.0	—	—
3 C.W. 2R	—	—	25.0	—	—
1 Feed	50.0	25.0	—	25.0	50.0
2 Feed	—	—	—	—	25.0
3 Feed	50.0	50.0	50.0	50.0	25.0

*Necessary difference—3.64 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Husky outyielded the other four varieties tested in this zone in 1959. It ranked first in both 1956 and 1957 and placed third in 1958. Husky is well adapted to this area and is officially recommended.

Hannchen ranked second in this zone in 1959. It has not been tested by the Wheat Pool in this zone in recent years. In other tests over a long period of years it has not produced outstanding yields and is not officially recommended for the zone.

Montcalm placed third in this zone in 1959. It placed first in 1958 but placed fifth in 1957 and fourth in 1956. It is not officially recommended for this zone.

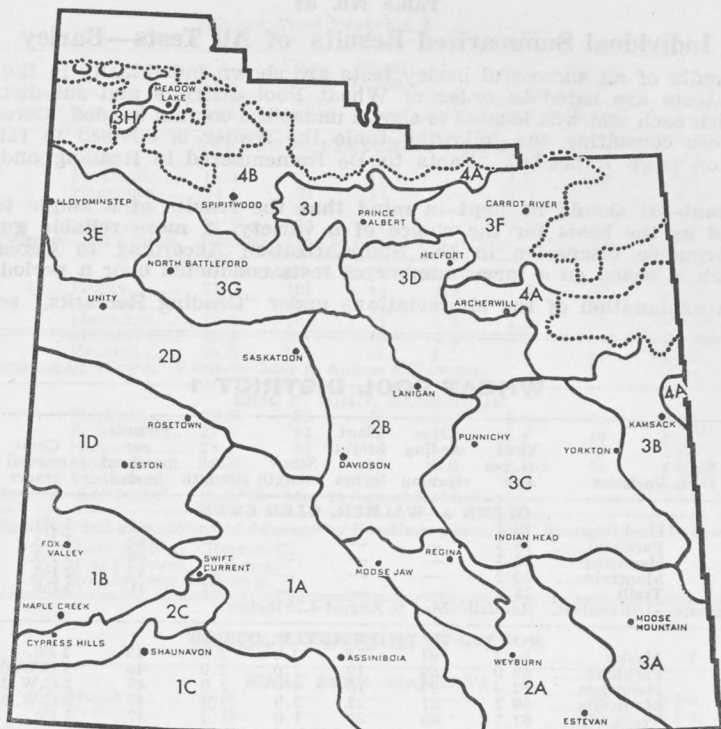
Traill ranked fourth in this zone in 1959. It placed fourth in 1958 and second in 1957. Traill is not officially recommended.

Parkland was outyielded by the other four varieties tested in this zone in 1959. It placed fifth in 1956 and 1958, and tied for third place in 1957. Parkland has yielded somewhat better in other tests in this area and its greater straw strength makes it more desirable than Montcalm in this zone. It is officially recommended for the zone.

Cereal Variety Zone 4B

Only one successful barley test was located in this zone in 1959. It was conducted by Eric Green of Rapid View and can be found in the section "Individual Summarized Results of all Tests—Barley" on Page 77.

The recommended varieties for this zone are Husky and Parkland.



Graphs showing barley yields in 1959.

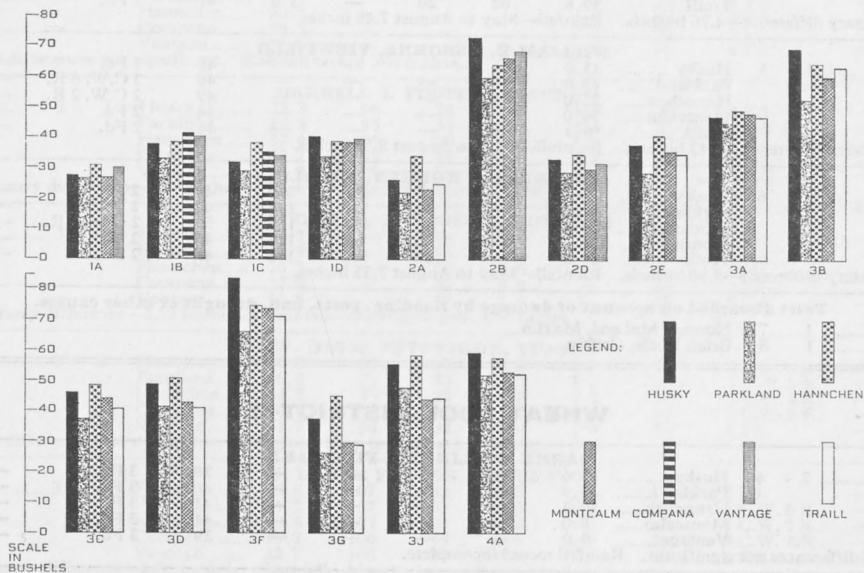


Table No. 62

Individual Summarized Results of All Tests—Barley

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks," see Page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub-Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
GLENN A. WALKER, GLEN EWEN											
3A.....	1	3	Husky.....	18.5	—	—	—	—	41	3 Fd.	—
			Parkland.....	18.3	—	—	—	—	40	3 Fd.	—
			Hannchen.....	22.3	—	—	—	—	46	1 Fd.	—
			Montcalm.....	20.2	—	—	—	—	43	2 Fd.	—
			Traill.....	24.2	—	—	—	—	41	3 Fd.	—
Necessary difference—3.96 bushels.				Rainfall—May to August 4.75 inches.							
DONALD H. TWIETMEYER, OXBOW											
3A.....	1	3	Husky.....	64.2	91	20	2.0	2.0	45	2 Fd.	—
			Parkland.....	68.0	89	19	2.0	2.0	46	3 C.W. 6 R.	—
			Hannchen.....	62.4	91	18	4.0	2.0	49	2 C.W. 2 R.	—
			Montcalm.....	69.2	87	22	3.0	3.0	47	3 C.W. 6 R.	—
			Traill.....	67.5	88	21	1.0	1.0	47	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 7.10 inches.							
RODNEY F. HARRIS, NORTH PORTAL											
2A.....	1	4	Husky.....	40.9	84	18	—	1.3	43	2 Fd.	—
			Parkland.....	33.3	83	18	—	2.0	44	2 Fd.	—
			Hannchen.....	41.0	83	18	—	1.3	51	1 C.W. 2 R.	—
			Montcalm.....	34.4	83	27	—	1.0	45	2 Fd.	—
			Traill.....	39.8	82	20	—	3.0	47	1 Fd.	—
Necessary difference—4.76 bushels.				Rainfall—May to August 7.48 inches.							
WILLIAM E. OSBORNE, VIEWFIELD											
2A.....	1	5	Husky.....	15.0	—	—	—	—	46	1 Fd.	—
			Parkland.....	13.0	—	—	—	—	46	3 C.W. 6 R.	—
			Hannchen.....	25.0	—	—	—	—	49	2 C.W. 2 R.	—
			Montcalm.....	16.0	—	—	—	—	44	2 Fd.	—
			Traill.....	16.3	—	—	—	—	44	2 Fd.	—
Necessary difference—4.43 bushels.				Rainfall—May to August 8.58 inches.							
PATRICK J. HODGEN, MIDALE											
2A.....	1	6	Husky.....	24.4	—	25	1.0	2.0	44	2 Fd.	—
			Parkland.....	20.8	—	32	1.0	1.8	45	2 Fd.	—
			Hannchen.....	35.0	—	25	1.5	1.5	50	2 C.W. 2 R.	—
			Montcalm.....	22.8	—	33	1.0	1.8	45	2 Fd.	—
			Traill.....	25.8	—	28	1.0	1.8	45	2 Fd.	—
Necessary difference—5.80 bushels.				Rainfall—May to August 7.35 inches.							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
2A.....	1	7	Norman McLeod, Maxim								
2A.....	1	8	Brian Keefe, Griffin.								

WHEAT POOL DISTRICT 2

GARRY BOLLINGER, FIFE LAKE											
1A.....	2	4	Husky.....	8.6	—	—	—	—	38	3 Fd.	—
			Parkland.....	8.6	—	—	—	—	40	3 Fd.	—
			Hannchen.....	10.3	—	—	—	—	41	3 Fd.	—
			Montcalm.....	8.0	—	—	—	—	41	3 Fd.	—
			Vantage.....	9.0	—	—	—	—	39	3 Fd.	—
Yield differences not significant.				Rainfall record incomplete.							

Wheat Pool District 2—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com-mercial grades	Grading remarks
VERNON D. FLETCHER, READLYN											
1A.....	2	8	Husky.....	15.6	91	18	—	2.0	43	2 Fd.	—
			Parkland.....	19.4	91	18	—	2.3	45	2 Fd.	—
			Hannchen.....	24.0	91	17	—	2.3	50	2 C.W. 2 R.	—
			Montcalm.....	15.1	91	19	—	2.3	44	2 Fd.	—
			Vantage.....	21.5	92	17	—	2.3	42	3 Fd.	—
Necessary difference—2.97 bushels.				Rainfall—May to August 4.38 inches.							
JAMES F. WEBB, AMULET											
1A.....	2	10	Husky.....	21.3	101	14	2.3	1.5	45	2 Fd.	—
			Parkland.....	16.0	104	17	3.0	1.8	46	3 C.W. 6 R.	—
			Hannchen.....	19.5	100	13	6.5	1.0	49	2 C.W. 2 R.	—
			Montcalm.....	19.3	107	16	4.8	3.0	46	3 C.W. 6 R.	—
			Vantage.....	20.6	103	19	2.3	1.3	44	2 Fd.	—
Yield differences not significant.				Rainfall—May to August 6.47 inches.							
ERIC V. HOLT, BENGOUGH											
1A.....	2	11	Husky.....	29.9	82	22	2.0	2.0	42	3 Fd.	—
			Parkland.....	29.9	82	24	1.0	2.0	46	3 C.W. 6 R.	—
			Hannchen.....	28.6	82	18	1.0	2.0	49	2 C.W. 2 R.	—
			Montcalm.....	30.5	82	29	1.0	2.0	46	3 C.W. 6 R.	—
			Vantage.....	40.0	82	28	1.0	1.0	44	2 Fd.	—
Necessary difference—6.60 bushels.				Rainfall—May to August 5.27 inches.							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
1C.....	2	6	Garry Kuffner, Glentworth.								
1C.....	2	7	Ross Richards, Assiniboia.								
1A.....	2	9	Ronald Gieni, Glasnevin.								

WHEAT POOL DISTRICT 3

MARY ZERR, MANKOTA											
1C.....	3	1	Husky.....	14.9	—	—	—	—	38	3 Fd.	—
			Parkland.....	15.5	—	—	—	—	40	3 Fd.	—
			Hannchen.....	23.2	—	—	—	—	44	2 Fd.	—
			Compna.....	24.5	—	—	—	—	42	3 Fd.	—
			Vantage.....	21.1	—	—	—	—	37	3 Fd.	—
Necessary difference—4.84 bushels.				Rainfall record incomplete.							
RUSSEL K. CARLETON, ORKNEY											
1C.....	3	2	Husky.....	16.3	—	—	—	—	36	3 Fd.	—
			Parkland.....	16.1	—	—	—	—	39	3 Fd.	—
			Hannchen.....	20.2	—	—	—	—	40	3 Fd.	—
			Compna.....	16.3	—	—	—	—	42	3 Fd.	—
			Vantage.....	17.8	—	—	—	—	38	3 Fd.	—
Yield differences not significant.				Rainfall record incomplete.							
DARRELL J. FOSTER, BRACKEN											
1C.....	3	3	Husky.....	32.3	96	28	4.3	1.8	38	3 Fd.	—
			Parkland.....	29.8	95	33	4.3	2.3	42	3 Fd.	—
			Hannchen.....	37.6	95	28	1.8	1.8	42	3 Fd.	—
			Compna.....	43.7	95	25	1.5	1.0	46	1 Fd.	—
			Vantage.....	36.8	95	30	6.0	2.0	39	3 Fd.	—
Necessary difference—8.15 bushels.				Rainfall—May to August 4.03 inches.							
CHERYL R. ANDERSON, FRONTIER											
1C.....	3	4	Husky.....	10.2	—	19	2.8	—	39	3 Fd.	—
			Parkland.....	12.9	—	16	2.8	—	38	3 Fd.	—
			Hannchen.....	16.3	—	20	2.0	—	43	2 Fd.	—
			Compna.....	17.9	—	20	6.0	—	43	2 Fd.	—
			Vantage.....	13.7	—	17	3.0	—	37	3 Fd.	—
Necessary difference—3.55 bushels.				Rainfall—May to August 4.54 inches.							
W. DAVID PETTYJOHN, VIDORA											
1C.....	3	5	Husky.....	56.5	97	30	1.0	1.0	52	1 Fd.	—
			Parkland.....	46.2	97	34	1.0	1.0	53	1 C.W. 6 R.	—
			Hannchen.....	64.7	99	32	1.0	1.0	57	1 C.W. 2 R.	—
			Compna.....	56.9	96	24	1.0	1.0	53	3 C.W. 2 R.	—
			Vantage.....	61.2	98	32	1.0	1.0	51	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 5.45 inches.							
J. LYNNE FULTON, SHAUNAVON											
1C.....	3	8	Husky.....	38.0	107	32	5.0	3.0	48	1 Fd.	—
			Parkland.....	31.2	107	32	7.0	3.0	51	1 C.W. 6 R.	—
			Hannchen.....	48.6	103	22	3.0	1.0	53	1 C.W. 2 R.	—
			Compna.....	39.7	100	19	2.0	1.8	52	3 C.W. 2 R.	—
			Vantage.....	32.7	100	30	4.0	2.0	50	1 Fd.	—
Necessary difference—6.80 bushels.				Rainfall—May to August 7.03 inches.							

Wheat Pool District 3—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
A. KEITH HEDSTROM, ADMIRAL											
1C.....	3	9	Husky.....	51.5	—	35	—	—	45	2 Fd.	—
			Parkland.....	48.5	—	38	—	—	49	2 C.W. 6 R.	—
			Hannchen.....	55.2	—	34	—	—	51	1 C.W. 2 R.	—
			Compana.....	46.9	—	27	—	—	49	3 C.W. 2 R.	—
			Vantage.....	52.5	—	36	—	—	47	1 Fd.	—
Yield differences not significant.				Rainfall record incomplete.							

M. MILDRED DUMONCEAUX, PONTIEX											
1C.....	3	10	Husky.....	9.0	99	—	—	—	44	2 Fd.	—
			Parkland.....	9.5	98	—	—	—	46	3 C.W. 6 R.	—
			Hannchen.....	6.7	100	—	—	—	47	3 C.W. 2 R.	—
			Compana.....	11.8	100	—	—	—	46	1 Fd.	—
			Vantage.....	10.3	100	—	—	—	41	3 Fd.	—
Test damaged by cattle—yields not included in zone summary.				Rainfall—May to August 4.63 inches.							

WHEAT POOL DISTRICT 4

DONALD L. WEDRICK, CARMICHAEL											
1B.....	4	1	Husky.....	54.2	—	29	1.5	2.0	50	1 Fd.	—
			Parkland.....	40.0	—	27	1.3	1.3	53	1 C.W. 6 R.	—
			Hannchen.....	55.6	—	29	1.3	1.8	53	1 C.W. 2 R.	—
			Compana.....	58.1	—	24	1.5	1.5	53	3 C.W. 2 R.	—
			Vantage.....	53.0	—	28	1.3	1.3	51	1 Fd.	—
Necessary difference—4.19 bushels.				Rainfall—May to August 8.47 inches.							

DONALD R. ANHORN, GOLDEN PRAIRIE											
1B.....	4	2	Husky.....	17.9	—	—	—	—	38	3 Fd.	—
			Parkland.....	14.6	—	—	—	—	41	3 Fd.	—
			Hannchen.....	23.5	—	—	—	—	48	3 C.W. 2 R.	—
			Compana.....	36.6	—	—	—	—	44	2 Fd.	—
			Vantage.....	29.6	—	—	—	—	41	3 Fd.	—
Necessary difference—3.82 bushels.				Rainfall—May to August 5.90 inches.							

NEIL R. CAMMER, WEBB											
1B.....	4	4	Husky.....	36.0	—	24	2.8	2.3	48	1 Fd.	—
			Parkland.....	36.0	—	24	1.5	3.0	50	1 C.W. 6 R.	—
			Hannchen.....	36.8	—	23	1.8	1.5	51	1 C.W. 2 R.	—
			Compana.....	28.0	—	17	1.0	1.0	49	3 C.W. 2 R.	—
			Vantage.....	35.1	—	24	2.8	1.0	48	1 Fd.	—
Necessary difference—4.09 bushels.				Rainfall—May to August 5.73 inches.							

GLENN E. HOWES, LEMS FORD											
1D.....	4	9	Husky.....	54.7	102	31	1.5	2.0	46	1 Fd.	—
			Parkland.....	38.8	102	34	1.3	1.5	49	2 C.W. 6 R.	—
			Hannchen.....	53.4	102	29	1.0	2.0	48	3 C.W. 2 R.	—
			Montcalm.....	45.5	102	36	1.0	1.8	49	2 C.W. 6 R.	—
			Vantage.....	57.5	102	31	1.0	1.5	48	1 Fd.	—
Necessary difference—6.49 bushels.				Rainfall—May to August 6.36 inches.							

HENRY W. LITTLE, HAZLET											
1B.....	4	10	Husky.....	21.5	80	20	2.5	2.5	37	3 Fd.	—
			Parkland.....	18.5	79	24	2.8	3.0	39	3 Fd.	—
			Hannchen.....	21.2	79	19	1.8	2.8	43	2 Fd.	—
			Compana.....	33.2	79	19	3.0	2.3	41	3 Fd.	—
			Vantage.....	27.3	81	21	3.3	2.0	38	3 Fd.	—
Necessary difference—6.83 bushels.				Rainfall—May to August 7.00 inches.							

MILTON D. BRAATEN, SHACKLETON											
1B.....	4	10	Husky.....	57.4	88	27	3.0	2.0	40	3 Fd.	—
			Parkland.....	52.3	88	29	2.0	2.0	43	2 Fd.	—
			Hannchen.....	54.3	84	26	2.0	2.0	46	1 Fd.	—
			Compana.....	50.3	85	22	4.0	1.0	45	2 Fd.	—
			Vantage.....	55.6	86	28	2.0	1.0	43	2 Fd.	—
Necessary difference—4.28 bushels.				Rainfall—May to August 9.61 inches.							

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1B.....	4	7	Gordon Koch, Fox Valley.								
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WHEAT POOL DISTRICT 5

MARLENE J. THOMAS, MOSSBANK											
1A.....	5	1	Husky.....	26.9	—	—	—	—	40	3 Fd.	—
			Parkland.....	29.0	—	—	—	—	44	2 Fd.	—
			Hannchen.....	33.8	—	—	—	—	48	3 C.W. 2 R.	—
			Montcalm.....	29.3	—	—	—	—	45	2 Fd.	—
			Vantage.....	28.7	—	—	—	—	43	2 Fd.	—
Yield differences not significant.				Rainfall—May to August 4.13 inches.							

Wheat Pool District 5—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
W. GARY BETTISON, PAMBRUN										
1A.....	5	3	Husky.....	39.0	98	25	1.3	45	2 Fd.	—
			Parkland.....	35.3	96	27	1.5	48	2 C.W. 6 R.	—
			Hannchen.....	36.4	96	22	1.3	50	2 C.W. 2 R.	—
			Montcalm.....	38.6	96	28	2.3	47	3 C.W. 6 R.	—
			Vantage.....	40.8	99	24	2.0	46	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.89 inches.										
HAROLD W. BOEHM, KELSTERN										
1A.....	5	5	Husky.....	42.6	91	25	3.3	46	1 Fd.	—
			Parkland.....	37.7	91	27	2.8	49	2 C.W. 6 R.	—
			Hannchen.....	41.5	91	25	1.3	49	3 C.W. 2 R.	1.
			Montcalm.....	46.8	91	29	1.8	49	2 C.W. 6 R.	—
			Vantage.....	45.1	91	26	2.0	48	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.01 inches.										
STEVE H. WILSON, CODERRE										
1A.....	5	6	Husky.....	15.2	106	15	1.0	47	1 Fd.	—
			Parkland.....	17.1	106	17	1.0	46	3 C.W. 6 R.	—
			Hannchen.....	20.1	106	17	1.0	51	3 C.W. 2 R.	D.
			Montcalm.....	11.6	101	18	1.0	46	3 C.W. 6 R.	—
			Vantage.....	20.9	98	17	1.3	43	2 Fd.	—
Necessary difference—4.66 bushels. Rainfall—May to August 6.28 inches.										
EDWARD B. SHILLINGTON, GRAYBURN										
1A.....	5	7	Husky.....	—	—	26	1.0	44	2 Fd.	—
			Parkland.....	—	—	28	2.0	46	3 C.W. 6 R.	—
			Hannchen.....	—	—	22	1.5	49	2 C.W. 2 R.	—
			Montcalm.....	—	—	26	2.0	46	3 C.W. 6 R.	—
			Trall.....	—	—	22	1.5	47	1 Fd.	—
Test damaged by animals—yields not reliable. Rainfall—May to August 4.62 inches.										
DONALD E. TURNER, AQUADELL										
1A.....	5	9	Husky.....	30.1	—	21	—	48	1 Fd.	—
			Parkland.....	23.0	—	24	—	50	3 C.W. 6 R.	1.
			Hannchen.....	33.8	—	22	—	51	3 C.W. 2 R.	1.
			Montcalm.....	23.5	—	23	—	49	3 C.W. 6 R.	1.
			Vantage.....	25.2	—	22	—	49	1 Fd.	—
Necessary difference—7.33 bushels. Rainfall—May to August 6.65 inches.										
ELDO M. SCHMIDT, ERFOLD										
1A.....	5	10	Husky.....	29.9	—	33	—	44	2 Fd.	—
			Parkland.....	32.6	—	34	—	45	2 Fd.	—
			Hannchen.....	46.5	—	29	—	50	2 C.W. 2 R.	—
			Montcalm.....	35.1	—	36	—	45	2 Fd.	—
			Vantage.....	44.6	—	32	—	44	2 Fd.	—
Necessary difference—11.87 bushels. Rainfall—May to August 6.24 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1A.....	5	2	Ethel Talbot, Ettington.							
1A.....	5	2	Billy Costley, Bateman.							

WHEAT POOL DISTRICT 6

DENNIS R. WAGNER, FRANCIS										
2A.....	6	2	Husky.....	23.5	—	—	—	42	3 Fd.	—
			Parkland.....	18.8	—	—	—	45	2 Fd.	—
			Hannchen.....	34.3	—	—	—	48	3 C.W. 2 R.	—
			Montcalm.....	16.6	—	—	—	46	3 C.W. 6 R.	—
			Trall.....	15.7	—	—	—	43	2 Fd.	—
Necessary difference—4.86 bushels. Rainfall record incomplete.										
KENNETH R. CLARKE, ESTLIN										
2E.....	6	3	Husky.....	30.2	—	—	—	42	3 Fd.	—
			Parkland.....	20.4	—	—	—	45	2 Fd.	—
			Hannchen.....	35.8	—	—	—	47	3 C.W. 2 R.	—
			Montcalm.....	26.3	—	—	—	40	3 Fd.	—
			Trall.....	25.0	—	—	—	46	1 Fd.	—
Necessary difference—6.05 bushels. Rainfall—May to August 6.35 inches.										
JOHN S. HALES, MOOSE JAW										
1A.....	6	5	Husky.....	14.3	105	19	6.0	36	3 Fd.	—
			Parkland.....	11.9	104	19	6.0	39	3 Fd.	—
			Hannchen.....	11.5	104	18	6.0	46	1 Fd.	—
			Montcalm.....	12.9	103	21	5.8	39	3 Fd.	—
			Vantage.....	12.2	105	16	6.0	39	3 Fd.	—
Yield differences not significant. Rainfall—May to August 5.63 inches.										

Wheat Pool District 6—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
MARGARET M. E. SCHUETTE, PENSE											
2E.....	6	6	Husky.....	45.1	—	—	—	—	44	2 Fd.	—
			Parkland.....	38.2	—	—	—	—	48	2 C.W. 6 R.	—
			Hannchen.....	50.7	—	—	—	—	49	2 C.W. 2 R.	—
			Montcalm.....	46.9	—	—	—	—	47	3 C.W. 6 R.	—
			Traill.....	48.1	—	—	—	—	49	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.84 inches.											
GAIL M. DICKSON, TREGARVA											
2E.....	6	10	Husky.....	36.8	99	23	2.5	1.0	49	1 Fd.	—
			Parkland.....	25.8	99	22	1.8	1.8	51	1 C.W. 6 R.	—
			Hannchen.....	34.6	97	24	2.3	2.0	53	1 C.W. 2 R.	—
			Montcalm.....	32.8	96	27	2.3	1.3	52	1 C.W. 6 R.	—
			Traill.....	31.3	98	22	1.3	2.8	51	1 Fd.	—
Necessary difference—3.68 bushels. Rainfall—May to August 6.13 inches.											
DOUGLAS THOMASON, BETHUNE											
2B.....	6	10	Husky.....	56.6	—	—	—	—	44	2 Fd.	—
			Parkland.....	46.9	—	—	—	—	45	2 Fd.	—
			Hannchen.....	56.5	—	—	—	—	49	2 C.W. 2 R.	—
			Montcalm.....	50.0	—	—	—	—	47	3 C.W. 6 R.	—
			Vantage.....	56.7	—	—	—	—	45	2 Fd.	—
Yield differences not significant. Rainfall—May to August 5.12 inches.											

WHEAT POOL DISTRICT 7

HUGH D. McLAREN, MARYFIELD											
3A.....	7	1	Husky.....	58.1	89	24	2.5	2.0	50	1 Fd.	—
			Parkland.....	50.9	89	25	2.3	2.8	48	2 C.W. 6 R.	—
			Hannchen.....	64.9	89	24	4.5	2.5	52	1 C.W. 2 R.	—
			Montcalm.....	55.8	89	28	2.5	2.5	49	2 C.W. 6 R.	—
			Traill.....	52.8	88	25	1.8	3.0	49	1 Fd.	—
Necessary difference—5.39 bushels. Rainfall—May to August 7.58 inches.											
RALPH C. WOOD, CORNING											
3A.....	7	5	Husky.....	47.6	81	26	2.8	1.3	44	2 Fd.	—
			Parkland.....	44.3	80	28	2.0	1.3	47	3 C.W. 6 R.	—
			Hannchen.....	47.6	83	24	4.0	2.5	50	2 C.W. 2 R.	—
			Montcalm.....	48.4	82	30	2.0	1.0	46	3 C.W. 6 R.	—
			Traill.....	44.2	84	26	4.0	2.0	47	1 Fd.	—
Yield differences not significant. Rainfall—May to August 7.46 inches.											
HENRY J. DONAUER, KENDAL											
2A.....	7	6	Husky.....	—	—	24	—	—	42	3 Fd.	—
			Parkland.....	—	—	25	—	—	45	2 Fd.	—
			Hannchen.....	—	—	24	—	—	49	2 C.W. 2 R.	—
			Montcalm.....	—	—	27	—	—	45	2 Fd.	—
			Traill.....	—	—	24	—	—	43	3 Fd.	—
Test damaged by animals—yields not reliable. Rainfall—May to August 5.61 inches.											
ROBERT G. HOWORTH, WHITEWOOD											
3C.....	7	8	Husky.....	54.9	—	—	—	—	46	1 Fd.	—
			Parkland.....	46.3	—	—	—	—	48	2 C.W. 6 R.	—
			Hannchen.....	55.9	—	—	—	—	51	1 C.W. 2 R.	—
			Montcalm.....	54.9	—	—	—	—	48	2 C.W. 6 R.	—
			Traill.....	53.0	—	—	—	—	50	1 Fd.	—
Yield differences not significant. Rainfall record incomplete.											
MURRAY S. PASK, ATWATER											
3C.....	7	10	Husky.....	55.0	—	30	2.0	2.0	45	2 Fd.	—
			Parkland.....	32.9	—	32	1.8	2.0	47	3 C.W. 6 R.	—
			Hannchen.....	70.3	—	30	2.0	1.8	50	2 C.W. 2 R.	—
			Montcalm.....	45.5	—	35	1.8	1.8	49	2 C.W. 6 R.	—
			Traill.....	43.8	—	32	1.3	2.0	49	1 Fd.	—
Necessary difference—11.70 bushels. Rainfall—May to August 5.49 inches.											
KENNETH J. MUJYGLA, WALDRON											
3C.....	7	11	Husky.....	34.5	100	22	1.0	2.0	43	2 Fd.	—
			Parkland.....	35.6	97	26	2.0	2.0	46	2 Fd.	M.
			Hannchen.....	30.0	99	22	1.0	1.0	46	2 Fd.	M.
			Montcalm.....	41.7	98	30	2.0	2.0	46	2 Fd.	M.
			Traill.....	36.5	98	24	1.0	2.0	48	2 Fd.	M.
Yield differences not significant. Rainfall—May to August 7.13 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3A..... 7 3 Wayne Bricker, Wawota.

WHEAT POOL DISTRICT 8

Cereal Variety Zone	Dist.	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
WAYNE F. POPP, MacNUTT											
3B.....	8	1	Husky.....	34.5	88	28	2.8	1.3	39	3 Fd.	—
			Parkland.....	40.8	85	30	3.5	1.0	40	3 Fd.	—
			Hannchen.....	38.9	84	27	2.0	1.3	45	2 Fd.	—
			Montcalm.....	44.9	87	31	4.0	1.8	40	3 Fd.	—
			Trail.....	46.0	84	28	2.8	1.3	40	3 Fd.	—
Yield differences not significant. Rainfall—May to August 8.47 inches.											
KENNETH G. WARRINER, KAMSACK											
3B.....	8	5	Husky.....	92.0	—	—	—	—	50	1 Fd.	—
			Parkland.....	69.9	—	—	—	—	52	1 C.W. 6 R.	—
			Hannchen.....	87.7	—	—	—	—	53	1 C.W. 2 R.	—
			Montcalm.....	77.1	—	—	—	—	51	1 C.W. 6 R.	—
			Trail.....	76.9	—	—	—	—	51	1 Fd.	—
Necessary difference—14.94 bushels. Rainfall—May to August 7.22 inches.											
LYNN M. ROSAASEN, HINCHLIFFE											
4A.....	8	8	Husky.....	59.3	—	—	—	—	36	3 Fd.	—
			Parkland.....	46.7	—	—	—	—	40	3 Fd.	—
			Hannchen.....	53.3	—	—	—	—	38	3 Fd.	—
			Montcalm.....	49.8	—	—	—	—	38	3 Fd.	—
			Trail.....	48.4	—	—	—	—	39	3 Fd.	—
Yield differences not significant. Rainfall—May to August 7.81 inches.											
CALVIN JOHNSON, NORQUAY											
3B.....	8	9	Husky.....	87.1	—	34	2.5	1.8	47	1 Fd.	—
			Parkland.....	61.3	—	33	2.3	1.8	49	1 Fd.	F.
			Hannchen.....	69.2	—	33	5.8	1.3	47	1 Fd.	F.
			Montcalm.....	64.1	—	34	6.5	1.5	47	1 Fd.	F.
			Trail.....	74.2	—	32	2.0	1.3	48	1 Fd.	—
Necessary difference—4.15 bushels. Rainfall—May to August 9.29 inches.											
ALBERT PRYSLAK, PELY											
3B.....	8	10	Husky.....	63.4	93	33	2.0	1.0	43	2 Fd.	—
			Parkland.....	39.1	94	30	3.0	2.0	46	3 C.W. 6 R.	—
			Hannchen.....	61.9	92	31	5.5	2.0	48	3 C.W. 2 R.	—
			Montcalm.....	53.5	94	34	4.0	1.0	45	2 Fd.	—
			Trail.....	54.8	92	30	3.0	2.0	43	2 Fd.	—
Necessary difference—9.42 bushels. Rainfall—May to August 7.45 inches.											
DONALD W. RURAK, ERWOOD											
3F.....	8	11	Husky.....	85.0	94	40	2.0	2.0	49	1 Fd.	—
			Parkland.....	71.3	95	40	2.0	2.0	49	2 C.W. 6 R.	—
			Hannchen.....	76.1	99	30	8.8	3.0	54	1 C.W. 2 R.	—
			Montcalm.....	75.5	94	40	3.5	2.0	47	3 C.W. 6 R.	—
			Trail.....	76.6	95	40	4.7	2.0	48	1 Fd.	—
Yield differences not significant. Rainfall—May to August 12.62 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
3C.....	8	6	Allen Kobylka, Gorlitz.								
4A.....	8	10	Orest Sych, Arran.								

WHEAT POOL DISTRICT 9

KEITH H. FLAVEL, BULYEA											
2B.....	9	4	Husky.....	31.9	103	27	2.0	1.0	50	1 Fd.	—
			Parkland.....	19.4	103	29	3.3	2.3	50	1 C.W. 6 R.	—
			Hannchen.....	35.1	104	24	2.0	1.0	53	1 C.W. 2 R.	—
			Montcalm.....	26.5	103	30	3.5	2.3	51	1 C.W. 6 R.	—
			Vantage.....	27.9	103	27	1.5	1.0	50	1 Fd.	—
Necessary difference—5.89 bushels. Rainfall—May to August 5.47 inches.											
GORDON M. SCHMIDT, DUVAL											
2B.....	9	5	Husky.....	111.0	—	—	1.0	1.0	51	1 Fd.	—
			Parkland.....	94.0	—	—	1.3	1.0	53	1 C.W. 6 R.	—
			Hannchen.....	89.1	—	—	9.0	1.0	50	2 C.W. 2 R.	—
			Montcalm.....	103.0	—	—	1.5	1.3	51	1 C.W. 6 R.	—
			Vantage.....	94.0	—	—	1.0	1.0	51	1 Fd.	—
Necessary difference—7.75 bushels. Rainfall—May to August 6.29 inches.											
HARVEY A. ROCKEL, LANIGAN											
2B.....	9	6	Husky.....	76.5	104	36	1.5	1.5	52	1 Fd.	—
			Parkland.....	68.2	104	39	1.5	2.0	53	1 C.W. 6 R.	—
			Hannchen.....	66.8	103	31	2.3	2.5	55	1 C.W. 2 R.	—
			Montcalm.....	66.1	103	39	2.0	2.0	52	1 C.W. 6 R.	—
			Vantage.....	79.0	103	39	1.0	1.5	50	1 Fd.	—
Yield differences not significant. Rainfall—May to August 7.63 inches.											

Wheat Pool District 9—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
LEONARD D. WOOD, KANDAHAR											
2B.....	9	8	Husky.....	90.4	96	33	3.3	2.0	46	1 Fd.	—
			Parkland.....	83.2	95	35	4.0	2.0	47	3 C.W. 6 R.	—
			Hannchen.....	69.8	102	30	5.5	3.0	47	3 C.W. 2 R.	—
			Montcalm.....	87.0	97	34	3.8	2.0	47	3 C.W. 6 R.	—
			Vantage.....	94.2	96	34	2.8	2.0	47	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 6.95 inches.							
DAVID L. NELSON, WISHART											
3C.....	9	9	Husky.....	39.0	—	—	—	—	48	1 Fd.	—
			Parkland.....	34.0	—	—	—	—	49	3 C.W. 6 R.	D.
			Hannchen.....	37.3	—	—	—	—	52	2 C.W. 2 R.	W.
			Montcalm.....	32.7	—	—	—	—	48	3 C.W. 6 R.	D.
			Traill.....	28.8	—	—	—	—	49	1 Fd.	—
Necessary difference—2.97 bushels.				Rainfall record incomplete.							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
3C.....	9	2	Ronald Hart, Cupar.								
3C.....	9	2	David Materi, Lipton.								

WHEAT POOL DISTRICT 10

DONALD L. J. ACKERMAN, CHAMBERLAIN											
2B.....	10	1	Husky.....	41.9	91	34	1.5	1.0	48	1 Fd.	—
			Parkland.....	55.6	91	36	2.0	1.0	49	3 C.W. 6 R.	I.
			Hannchen.....	49.5	89	31	1.8	1.0	48	1 Fd.	G.
			Montcalm.....	41.2	92	39	1.8	1.0	51	1 C.W. 6 R.	—
			Vantage.....	52.4	88	33	2.0	1.0	48	1 Fd.	—
Samples bulked—yields not included in zone summary.				Rainfall—May to August 6.82 inches.							
BARRY L. OLSON, GILROY											
1A.....	10	2	Husky.....	43.1	—	15	1.0	1.0	45	2 Fd.	—
			Parkland.....	44.8	—	15	1.0	2.0	47	3 C.W. 6 R.	—
			Hannchen.....	44.9	—	15	1.0	1.0	50	2 C.W. 2 R.	—
			Montcalm.....	36.7	—	20	1.0	3.0	47	3 C.W. 6 R.	—
			Vantage.....	40.4	—	15	1.0	1.0	46	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 8.09 inches.							
THOMAS C. WILLIAMS, TUGASKE											
2B.....	10	2	Husky.....	67.8	—	20	—	—	48	1 Fd.	—
			Parkland.....	46.3	—	22	—	—	50	1 C.W. 6 R.	—
			Hannchen.....	63.7	—	18	—	—	54	1 C.W. 2 R.	—
			Montcalm.....	61.4	—	24	—	—	51	1 C.W. 6 R.	—
			Vantage.....	56.9	—	22	—	—	50	1 Fd.	—
Necessary difference—3.47 bushels.				Rainfall—May to August 5.25 inches.							
PEARL B. JOHNSON, DEMAINE											
1A.....	10	3	Husky.....	37.2	—	23	1.0	1.5	44	2 Fd.	—
			Parkland.....	34.4	—	25	1.0	2.0	47	3 C.W. 6 R.	—
			Hannchen.....	44.2	—	21	1.0	1.5	50	2 C.W. 2 R.	—
			Montcalm.....	39.0	—	28	1.0	2.3	47	3 C.W. 6 R.	—
			Vantage.....	38.2	—	26	1.0	1.8	46	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 6.48 inches.							
PETER A. REIBER, WISETON											
1D.....	10	4	Husky.....	27.5	—	28	—	—	39	3 Fd.	—
			Parkland.....	25.0	—	29	—	—	43	2 Fd.	—
			Hannchen.....	26.5	—	25	—	—	47	3 C.W. 2 R.	—
			Montcalm.....	30.3	—	29	—	—	42	3 Fd.	—
			Vantage.....	33.0	—	26	—	—	41	3 Fd.	—
Necessary difference—5.30 bushels.				Rainfall—May to August 5.58 inches.							
DONALD A. BENSON, OUTLOOK											
2D.....	10	5	Husky.....	33.7	89	28	4.0	1.8	41	3 Fd.	—
			Parkland.....	27.9	88	28	4.0	2.0	44	2 Fd.	—
			Hannchen.....	34.5	88	26	3.5	2.3	47	3 C.W. 2 R.	—
			Montcalm.....	31.6	89	33	4.0	2.0	43	2 Fd.	—
			Vantage.....	31.9	87	31	4.0	2.0	44	2 Fd.	—
Yield differences not significant.				Rainfall—May to August 5.32 inches.							
FRIDA M. JOHNSON, DAVIDSON											
2D.....	10	7	Husky.....	23.3	99	17	1.0	2.0	46	1 Fd.	—
			Parkland.....	20.5	98	18	1.3	2.0	45	2 Fd.	—
			Hannchen.....	27.0	98	16	1.3	1.8	52	1 C.W. 2 R.	—
			Montcalm.....	19.0	96	21	1.3	2.0	47	3 C.W. 6 R.	—
			Vantage.....	25.2	96	19	1.5	1.5	44	2 Fd.	—
Necessary difference—2.31 bushels.				Rainfall—May to August 6.02 inches.							

Wheat Pool District 10—Continued

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
ROBERT J. HAIGHT, HANLEY											
2D.....	10	9	Husky.....	43.5	85	26	2.0	2.0	46	1 Fd.	—
			Parkland.....	36.0	85	29	1.3	2.0	49	2 C.W. 6 R.	—
			Hannchen.....	45.9	85	25	1.0	1.0	50	2 C.W. 2 R.	—
			Montcalm.....	39.8	85	28	2.0	2.0	48	2 C.W. 6 R.	—
			Vantage.....	46.1	81	28	2.0	1.3	45	2 Fd.	—
Yield differences not significant. Rainfall—May to August 3.57 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

2D.....10 8 Lloyd Nelson, Simpson.

WHEAT POOL DISTRICT 11

D. BRETT DIXON, LACADENA											
1D.....	11	1	Husky.....	40.0	101	24	1.5	2.0	46	1 Fd.	—
			Parkland.....	32.0	101	25	2.0	2.0	49	2 C.W. 6 R.	—
			Hannchen.....	40.5	89	24	1.3	1.5	51	1 C.W. 2 R.	—
			Montcalm.....	36.8	102	27	1.8	1.8	49	2 C.W. 6 R.	—
			Vantage.....	37.6	101	26	1.5	1.3	50	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.86 inches.											

REINHARDT A. SEIB, GLIDDEN											
1D.....	11	3	Husky.....	14.8	90	24	2.0	—	41	3 Fd.	—
			Parkland.....	19.5	90	24	3.0	—	40	3 Fd.	—
			Hannchen.....	17.1	90	20	1.0	—	43	2 Fd.	—
			Montcalm.....	17.0	90	24	2.0	—	41	3 Fd.	—
			Vantage.....	16.3	90	24	3.0	—	42	3 Fd.	—
Yield differences not significant. Rainfall—May to August 5.53 inches.											

G. DIANNE PUNTER, LAPORTE											
1D.....	11	4	Husky.....	45.9	—	27	—	—	51	1 Fd.	—
			Parkland.....	36.8	—	27	—	—	52	1 C.W. 6 R.	—
			Hannchen.....	44.3	—	26	—	—	55	1 C.W. 2 R.	—
			Montcalm.....	45.3	—	32	—	—	52	1 C.W. 6 R.	—
			Vantage.....	40.5	—	29	—	—	52	1 Fd.	—
Necessary difference—2.72 bushels. Rainfall—May to August 7.21 inches.											

ROBERT E. REED, NETHERHILL											
1D.....	11	6	Husky.....	46.8	101	23	2.3	2.3	47	1 Fd.	—
			Parkland.....	33.5	103	25	2.8	2.5	50	1 C.W. 6 R.	—
			Hannchen.....	42.8	99	23	3.3	2.0	52	1 C.W. 2 R.	—
			Montcalm.....	44.8	104	25	2.5	2.0	49	2 C.W. 6 R.	—
			Vantage.....	41.1	103	24	2.5	2.0	49	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.51 inches.											

GERALD E. KRCHOV, ROSETOWN											
2D.....	11	7	Husky.....	27.5	92	23	1.3	2.3	43	2 Fd.	—
			Parkland.....	28.6	92	24	1.7	3.0	45	2 Fd.	—
			Hannchen.....	31.4	92	23	1.3	1.0	49	3 C.W. 2 R.	D.
			Montcalm.....	28.8	93	27	1.3	2.3	46	3 C.W. 6 R.	—
			Vantage.....	30.4	92	24	1.0	1.3	45	2 Fd.	—
Yield differences not significant. Rainfall—May to August 5.97 inches.											

JOHN I. KAMPEN, FISKE											
1D.....	11	8	Husky.....	36.6	—	23	2.5	2.3	41	3 Fd.	—
			Parkland.....	37.7	—	26	2.3	3.0	43	2 Fd.	—
			Hannchen.....	41.4	—	22	2.0	2.0	48	3 C.W. 2 R.	—
			Montcalm.....	34.8	—	25	2.0	3.0	43	2 Fd.	—
			Vantage.....	32.8	—	24	2.0	2.0	42	3 Fd.	—
Yield differences not significant. Rainfall—May to August 5.77 inches.											

G. VANCE MATHISON, PLENTY											
1D.....	11	9	Husky.....	—	—	—	—	—	43	2 Fd.	—
			Parkland.....	—	—	—	—	—	45	2 Fd.	—
			Hannchen.....	—	—	—	—	—	49	2 C.W. 2 R.	—
			Montcalm.....	—	—	—	—	—	46	3 C.W. 6 R.	—
			Vantage.....	—	—	—	—	—	43	2 Fd.	—
Severe grasshopper damage—yields not reliable. Rainfall—May to August 3.54 inches.											

FRANK J. KAMINSKI, DEWAR LAKE											
1D.....	11	10	Husky.....	53.7	85	26	2.3	1.5	51	1 Fd.	—
			Parkland.....	44.1	85	27	2.0	2.0	51	1 C.W. 6 R.	—
			Hannchen.....	41.9	85	25	1.3	2.0	54	1 C.W. 2 R.	—
			Montcalm.....	51.4	85	32	2.0	2.0	51	1 C.W. 6 R.	—
			Vantage.....	54.7	85	26	1.8	1.0	51	1 Fd.	—
Necessary difference—4.87 bushels. Rainfall—May to August 5.97 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1D.....11 9 Jack Blackburn, Coleville.

WHEAT POOL DISTRICT 12

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
ROBERT W. MANTIE, BIGGAR										
2D.....12	2	Husky.....	—	—	11	1.0	1.5	45	2 Fd.	—
		Parkland.....	—	—	11	1.0	1.5	46	3 C.W. 6 R.	—
		Hannchen.....	—	—	11	1.0	1.3	50	2 C.W. 2 R.	—
		Montcalm.....	—	—	11	1.0	2.0	46	3 C.W. 6 R.	—
		Vantage.....	—	—	11	1.0	2.0	45	2 Fd.	—
Samples bulked—yields unreliable.			Rainfall—May to August 6.21 inches.							
DONALD CEY, LEIPZIG										
2D.....12	3	Husky.....	34.9	108	—	—	—	48	1 Fd.	—
		Parkland.....	22.5	106	—	—	—	51	2 C.W. 6 R.	W.
		Hannchen.....	36.1	106	—	—	—	54	2 C.W. 2 R.	W.
		Montcalm.....	26.1	106	—	—	—	49	2 C.W. 6 R.	—
		Vantage.....	26.2	106	—	—	—	47	1 Fd.	—
Necessary difference—6.26 bushels.			Rainfall—May to August 5.76 inches.							
ROBERT D. TAYLOR, LUSELAND										
2D.....12	5	Husky.....	26.3	—	—	—	—	46	1 Fd.	—
		Parkland.....	19.8	—	—	—	—	48	3 C.W. 6 R.	—
		Hannchen.....	26.4	—	—	—	—	49	3 C.W. 2 R.	—
		Montcalm.....	21.7	—	—	—	—	47	3 C.W. 6 R.	—
		Vantage.....	24.0	—	—	—	—	46	1 Fd.	—
Necessary difference—2.90 bushels.			Rainfall—May to August 5.00 inches.							
G. RODNEY SMITH, SENLAC										
2D.....12	7	Husky.....	13.2	—	—	—	—	43	2 Fd.	—
		Parkland.....	11.9	—	—	—	—	42	3 Fd.	—
		Hannchen.....	21.2	—	—	—	—	49	2 C.W. 2 R.	—
		Montcalm.....	12.9	—	—	—	—	43	2 Fd.	—
		Vantage.....	13.6	—	—	—	—	41	3 Fd.	—
Necessary difference—4.24 bushels.			Rainfall record incomplete.							
CHESTER ZAWADA, IBSTONE										
3G.....12	10	Husky.....	24.8	—	—	1.0	1.0	47	1 Fd.	—
		Parkland.....	20.0	—	—	1.0	1.0	49	3 C.W. 6 R.	W.
		Hannchen.....	30.1	—	—	1.0	1.0	51	2 C.W. 2 R.	W.
		Montcalm.....	19.6	—	—	3.0	2.0	47	3 C.W. 6 R.	—
		Traill.....	21.6	—	—	2.3	1.3	47	1 Fd.	—
Samples incomplete—yields not included in zone summary.			Rainfall—May to August 6.16 inches.							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
2D.....12	1	Patricia Rea, Springwater.								
2D.....12	6	Darlene Fruson, Cactus Lake.								
2D.....12	9	Charles Churchill, Wilkie.								

WHEAT POOL DISTRICT 13

RONALD EARIS, BAY TRAIL										
3D.....13	1	Husky.....	43.2	94	29	2.0	2.3	45	2 Fd.	—
		Parkland.....	37.3	91	29	2.8	1.8	49	2 C.W. 6 R.	—
		Hannchen.....	50.8	98	27	4.3	3.0	49	2 C.W. 2 R.	—
		Montcalm.....	42.1	96	32	2.0	2.3	49	2 C.W. 6 R.	—
		Traill.....	44.1	88	29	2.0	1.8	46	1 Fd.	—
Yield differences not significant.			Rainfall—May to August 6.70 inches.							
LYNNE A. PEASLEY, DUNDURN										
2D.....13	3	Husky.....	43.9	86	32	1.0	2.0	48	1 Fd.	—
		Parkland.....	38.2	80	35	2.0	2.3	51	1 C.W. 6 R.	—
		Hannchen.....	49.0	86	31	1.3	2.0	53	1 C.W. 2 R.	—
		Montcalm.....	46.1	80	36	1.0	2.0	48	2 C.W. 6 R.	—
		Vantage.....	40.8	83	33	1.0	1.0	50	1 Fd.	—
Yield differences not significant.			Rainfall—May to August 4.23 inches.							
SANDRA L. GREENWOOD, CHEVIOT										
2B.....13	4	Husky.....	—	92	21	4.0	2.0	45	2 Fd.	—
		Parkland.....	—	94	24	5.0	3.0	45	2 Fd.	—
		Hannchen.....	—	92	20	2.0	1.0	50	1 Fd.	G.
		Montcalm.....	—	94	24	6.0	2.0	45	2 Fd.	—
		Vantage.....	—	96	22	4.0	2.0	42	3 Fd.	—
Test damaged by birds—yields not reliable.			Rainfall—May to August 4.30 inches.							
JUDITH FAST, DALMENY										
2D.....13	5	Husky.....	27.1	—	24	2.0	3.0	42	3 Fd.	—
		Parkland.....	30.1	—	28	3.0	2.0	44	2 Fd.	—
		Hannchen.....	24.4	—	23	2.0	2.0	48	1 Fd.	G.
		Montcalm.....	27.1	—	30	2.0	2.0	44	2 Fd.	—
		Vantage.....	28.4	—	28	1.0	1.0	42	3 Fd.	—
Yield differences not significant.			Rainfall—May to August 3.07 inches.							

Wheat Pool District 13—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
ALEX BONDEROFF, LANGHAM										
2D.....13	6	Husky.....	32.2	—	21	1.5	3.0	48	1 Fd.	—
		Parkland.....	28.1	—	22	1.5	2.5	48	2 C.W. 6 R.	—
		Hannchen.....	28.2	—	22	1.0	1.0	51	2 C.W. 2 R.	D.
		Montcalm.....	25.0	—	26	1.3	2.0	48	2 C.W. 6 R.	—
		Vantage.....	31.8	—	26	1.0	1.0	50	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.62 inches.										
MERLYN R. BONSTROM, KINLEY										
2D.....13	7	Husky.....	54.8	87	25	1.8	2.5	50	1 Fd.	—
		Parkland.....	48.3	84	30	2.0	2.0	50	1 C.W. 6 R.	—
		Hannchen.....	55.3	85	26	1.3	1.0	53	1 C.W. 2 R.	—
		Montcalm.....	46.5	85	32	2.3	1.8	49	2 C.W. 6 R.	—
		Vantage.....	52.6	85	28	2.5	1.5	48	1 Fd.	—
Necessary difference—5.91 bushels. Rainfall—May to August 5.91 inches.										
DAVID V. L. WIEGERS, HUMBOLDT										
3D.....13	10	Husky.....	39.8	95	25	1.8	2.5	45	2 Fd.	—
		Parkland.....	28.9	91	25	2.3	2.3	46	3 C.W. 6 R.	—
		Hannchen.....	44.9	91	26	1.3	1.3	51	2 C.W. 2 R.	D.
		Montcalm.....	28.5	86	29	3.3	1.3	47	3 C.W. 6 R.	—
		Traill.....	25.9	87	26	1.5	2.8	45	2 Fd.	—
Necessary difference—7.87 bushels. Rainfall—May to August 9.46 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
2B.....13	8	Glenn Neufeld, Aberdeen								
2B.....13	8	Constant Bandit, Prud'homme.								
2B.....13	9	Gerald Kish, Bremen.								

WHEAT POOL DISTRICT 14

ROY D. NOVAK, KUROKI										
4A.....14	1	Husky.....	69.6	82	26	1.0	2.0	48	1 Fd.	—
		Parkland.....	66.1	81	26	1.3	2.0	47	3 C.W. 6 R.	—
		Hannchen.....	78.6	79	24	1.8	2.0	51	2 C.W. 2 R.	I.
		Montcalm.....	71.7	81	25	2.0	2.0	48	2 C.W. 6 R.	—
		Traill.....	60.7	81	26	1.8	2.0	48	1 Fd.	—
Necessary difference—6.97 bushels. Rainfall—May to August 7.18 inches.										
FRANCIS L. WEBER, WADENA										
3D.....14	2	Husky.....	18.0	108	14	1.0	1.0	45	2 Fd.	—
		Parkland.....	21.4	108	14	1.0	1.0	43	2 Fd.	—
		Hannchen.....	24.8	108	14	3.0	1.0	51	2 C.W. 2 R.	I.
		Montcalm.....	18.1	105	18	1.0	3.0	44	2 Fd.	—
		Traill.....	18.2	108	14	1.0	1.0	45	2 Fd.	—
Necessary difference—4.32 bushels. Rainfall—May to August 6.79 inches.										
A. NEIL MORRISON, ROSE VALLEY										
3D.....14	4	Husky.....	90.2	93	30	2.5	2.0	50	1 Fd.	—
		Parkland.....	76.8	91	31	3.0	2.0	51	2 C.W. 6 R.	W.
		Hannchen.....	81.1	98	35	8.0	3.0	53	2 C.W. 2 R.	W.
		Montcalm.....	82.0	88	30	2.8	2.0	51	2 C.W. 6 R.	W.
		Traill.....	74.4	92	30	2.0	2.0	51	1 Fd.	—
Necessary difference—9.41 bushels. Rainfall—May to August 6.67 inches.										
ERIC W. STADNEK, WEEKES										
3F.....14	6	Husky.....	56.1	100	22	—	2.0	45	2 Fd.	—
		Parkland.....	51.1	97	28	—	3.0	50	3 C.W. 6 R.	D.
		Hannchen.....	52.9	92	28	—	1.0	51	3 C.W. 2 R.	D.
		Montcalm.....	54.2	97	29	—	2.0	49	3 C.W. 6 R.	D.
		Traill.....	50.0	95	24	—	2.0	50	1 Fd.	—
Yield differences not significant. Rainfall—May to August 9.24 inches.										
KENNETH A. EDWARDS, ZENON PARK										
3F.....14	10	Husky.....	89.8	—	—	—	—	49	1 Fd.	—
		Parkland.....	84.3	—	—	—	—	51	1 Fd.	D.
		Hannchen.....	87.8	—	—	—	—	50	1 Fd.	D.
		Montcalm.....	97.4	—	—	—	—	50	1 Fd.	D.
		Traill.....	87.6	—	—	—	—	50	1 Fd.	—
Samples incomplete—yields not included in zone summary. Rainfall—May to August 9.01 inches.										

Wheat Pool District 14—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com-mercial grades	Grading remarks
EDWIN G. NEUFELD, CODETTE										
3F.....14	11	Husky.....	110.0	—	—	—	—	52	Rejected	M.
		Parkland.....	74.9	—	—	—	—	51	Rejected	M.
		Hannchen.....	94.3	—	—	—	—	53	Rejected	M.
		Montcalm.....	90.9	—	—	—	—	52	Rejected	M.
		Traill.....	86.3	—	—	—	—	51	Rejected	M.
Necessary difference—8.43 bushels.			Rainfall—May to August 6.92 inches.							

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3F.....14	7	Monte Walsh, Tisdale.
3D.....14	8	Eldon Moen, Melfort.

WHEAT POOL DISTRICT 15

L. GRANT PETERS, LAIRD										
3G.....15	4	Husky.....	33.0	126	25	1.0	2.3	46	1 Fd.	—
		Parkland.....	25.2	126	27	1.0	2.3	47	1 Fd.	G.
		Hannchen.....	48.1	122	23	1.0	1.0	50	1 Fd.	G.
		Montcalm.....	24.5	124	28	1.0	2.0	48	1 Fd.	G.
		Traill.....	26.7	124	23	1.0	2.3	49	1 Fd.	—
Necessary difference—6.27 bushels.			Rainfall—May to August 5.50 inches.							

LARRY MASON, SHELLBROOK										
3J.....15	6	Husky.....	—	115	—	1.0	1.0	46	1 Fd.	—
		Parkland.....	—	115	—	2.0	1.0	47	3 C.W. 6 R.	—
		Hannchen.....	—	115	—	2.0	1.0	50	3 C.W. 2 R.	D.
		Montcalm.....	—	115	—	1.0	1.0	43	2 Fd.	—
		Traill.....	—	105	—	4.0	2.0	46	1 Fd.	—
Test damaged by animals—yields not reliable.			Rainfall record incomplete.							

MARCEL LAJEUNESSE, DEBDEN										
3J.....15	7	Husky.....	51.7	96	33	2.8	1.5	53	1 Fd.	—
		Parkland.....	52.3	96	37	3.0	2.0	54	1 C.W. 6 R.	—
		Hannchen.....	53.6	102	30	5.0	1.8	55	1 C.W. 2 R.	—
		Montcalm.....	45.5	96	36	4.3	1.8	54	1 C.W. 6 R.	—
		Traill.....	41.9	96	32	2.3	2.0	52	1 Fd.	—
Necessary difference—7.90 bushels.			Rainfall—May to August 6.84 inches.							

MORRIS P. SAWCHUK, WILD ROSE										
3J.....15	8	Husky.....	59.2	—	29	2.5	2.0	48	1 Fd.	—
		Parkland.....	42.5	—	32	2.8	2.3	51	1 Fd.	F.
		Hannchen.....	62.5	—	28	1.8	2.5	52	1 Fd.	F.
		Montcalm.....	41.7	—	30	2.5	2.3	52	1 Fd.	F.
		Traill.....	45.7	—	29	2.0	2.5	51	1 Fd.	—
Necessary difference—9.70 bushels.			Rainfall—May to August 7.17 inches.							

SUSIE M. MOLITWENIK, FOXFORD										
4A.....15	10	Husky.....	43.0	—	—	—	—	33	3 Fd.	—
		Parkland.....	47.5	—	—	—	—	40	3 Fd.	—
		Hannchen.....	43.6	—	—	—	—	39	3 Fd.	—
		Montcalm.....	39.9	—	—	—	—	35	3 Fd.	—
		Traill.....	48.4	—	—	—	—	44	2 Fd.	—
Yield differences not significant.			Rainfall record incomplete.							

DUANE W. H. EALEY, SNOWDEN										
4A.....15	11	Husky.....	64.1	107	24	2.0	1.0	49	1 Fd.	—
		Parkland.....	46.7	102	24	2.0	2.0	51	1 Fd.	G.
		Hannchen.....	55.1	107	25	2.0	1.0	52	3 C.W. 2 R.	D.
		Montcalm.....	50.3	104	26	2.0	2.0	50	1 Fd.	G.
		Traill.....	51.8	97	26	3.0	1.0	49	1 Fd.	—
Necessary difference—7.88 bushels.			Rainfall—May to August 7.29 inches.							

WHEAT POOL DISTRICT 16

MITCHEL W. BOMOK, SPEERS										
3G.....16	2	Husky.....	19.3	—	—	—	—	49	1 Fd.	—
		Parkland.....	14.1	—	—	—	—	50	1 Fd.	G.
		Hannchen.....	19.8	—	—	—	—	52	1 Fd.	G.
		Montcalm.....	18.5	—	—	—	—	50	1 Fd.	G.
		Traill.....	14.8	—	—	—	—	49	1 Fd.	—
Necessary difference—4.37 bushels.			Rainfall record incomplete.							

Wheat Pool District 16—Continued

Cereal Variety Zone	Sub- dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
GLENN W. KILDAW, ROBINHOOD										
3G.....16	9	Husky.....	57.2	95	20	2.5	1.5	51	1 Fd.	—
		Parkland.....	36.8	96	20	2.0	2.0	52	3 C.W. 6 R.	D.
		Hannchen.....	68.4	101	20	6.3	2.5	53	2 C.W. 2 R.	W.
		Montcalm.....	44.5	94	20	3.8	1.5	50	3 C.W. 6 R.	D.
		Traill.....	43.2	95	20	2.3	1.3	50	1 Fd.	—
Necessary difference—4.50 bushels.			Rainfall—May to August 11.62 inches.							
BETTY ALLEN, MULLINGAR										
3G.....16	10	Husky.....	38.7	97	24	3.5	1.5	49	1 Fd.	—
		Parkland.....	28.0	95	24	2.0	1.5	51	3 C.W. 6 R.	D.
		Hannchen.....	43.3	95	26	2.8	1.3	52	3 C.W. 2 R.	D.
		Montcalm.....	29.3	90	27	3.0	2.5	49	3 C.W. 6 R.	D.
		Traill.....	30.3	94	22	3.5	1.8	51	1 Fd.	—
Necessary difference—5.08 bushels.			Rainfall—May to August 7.01 inches.							
ERIC W. GREEN, RAPID VIEW										
4B.....16	11	Husky.....	43.4	—	38	—	—	45	1 Fd.	—
		Parkland.....	24.8	—	37	—	—	48	1 Fd.	F.
		Hannchen.....	40.3	—	34	—	—	48	1 Fd.	F.
		Montcalm.....	34.4	—	40	—	—	46	1 Fd.	F.
		Traill.....	29.5	—	32	—	—	47	1 Fd.	—
Necessary difference 10.04 bushels.			Rainfall—May to August 8.11 inches.							

RAPE TESTS

The rape testing project begun in 1958 was carried on again on the same basis in 1959. A total of 32 rape tests each containing the five varieties Golden, Regina II, R-5, Arlo and Polish, were located throughout the province on the basis of two in each Wheat Pool district. As a result some tests were located in areas in which rape would not be grown as a commercial crop. However, the aim of these tests is to compare the rape varieties and also to assess the effect of different growing conditions on the characteristics of the varieties. The location of the individual rape tests is shown on the map on page 5.

DESCRIPTION OF VARIETIES

Two distinct types of rape were included in these tests. Three of the varieties tested were of the Argentine type and the remaining two were of the Polish type.

Varieties of the Argentine type

Varieties of this type are much later in maturity than those of the Polish type. They are taller growing, and have smooth, blue-green leaves. The seed is larger than that of the Polish types.

Golden was developed at the Dominion Forage Crops Laboratory, Saskatoon. It is a licensed variety in Canada.

Regina II was developed at the Swedish Seed Association, Svalof, Sweden. It resembles Golden in appearance.

R-5—this is a code number for a sample of Argentine type selected by H. G. Neufeld of Nipawin, Saskatchewan. It resembles Golden in appearance.

Varieties of the Polish type

These varieties are early in maturity, have green, crinkled leaves and small seeds.

Polish traces back to seed imported from Europe. It was the first type to be grown in Saskatchewan.

Arlo was developed by the Swedish Seed Association, Svalof, Sweden. It is similar in appearance to Polish. Arlo was licensed in Canada in 1958 and seed was made available for commercial distribution in the fall of 1959.

INTERPRETATION OF RESULTS

In addition to the usual calculation of yield, time of ripening, plant height, bushel weight, etc., seed samples from the tests were subjected to laboratory analysis to determine a number of factors which affect the industrial uses of rape seed oil. A brief outline of the tests conducted and interpretation of the results follows:

Percentage of Oil—Rape seed oil is the primary product of this crop, so the value of the seed is in direct proportion to the amount of oil which can be extracted from it. For the information of readers interested in the method of analysis, the oil was solvent extracted with Petroleum Ether from a sample of ground seed.

Percentage of Protein—Rape seed meal is a byproduct of the extraction of oil from the seed. This meal is used as a protein supplement in certain livestock feeds. The value of the meal is in direct proportion to its protein content.

Iodine number—Rape seed oil is used by industry for a variety of products. For some of these it is used in the form of an oil which is processed directly. For other uses it must first be chemically treated, (hydrogenated) to convert the oil to a solid fat. The amount of hydrogen required to bring about this conversion varies, depending on the chemical composition of the oil sample. The iodine number of an oil sample is simply an indicator of the degree of treatment required to convert the oil into a solid fat. An oil sample with a high iodine number requires more processing than does one with a lower iodine number. Thus, for an industrial use which requires an oil the processor would prefer a sample with a high iodine number. Conversely for a use which requires a solid fat, the processor would prefer a sample with a low iodine number.

SUMMARY OF RESULTS BY AREAS

Because of the small number of rape tests conducted it was not possible to obtain detailed results for all cereal variety zones. However, a summary has been made by combining the tests located in those zones in which growing conditions were generally similar. In most cases the tests located in any one of these areas produced similar results. Some areas are not represented because the tests located in them were destroyed by drought, insects, hail, or other causes.

Dry weather conditions in the spring of 1959 in the southern part of the province caused uneven germination in some tests. Relatively low yields were produced in most of the tests in the south, while in the northern areas very high yields were produced. The tests located in the drier areas produced notably high protein and relatively low oil. In 1959 the difference in iodine number among the different varieties was much less than might be expected. No explanation for this is presently available, but it seems advisable to treat this part of the test results with some caution.

The early maturing varieties Arlo and Polish generally outyielded the others in the southern part of the province but the later maturing ones yielded relatively better in the north and north-east.



Roy Kaminski of Young stands beside the sign which indicates that he conducted a test in 1959.

Table No. 63—Southwest Area (Cereal Variety Zones 1A, 1B, 1C, 1D)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	374.6	369.7	308.5	446.8	404.6
Days from seeding to ripening.....	105.1	106.9	105.6	86.4	87.7
Height of plants in inches.....	23.0	23.0	25.0	22.3	22.3
Bushel weight in pounds.....	49.8	50.0	50.5	52.3	52.5
Percentage of oil in seed.....	36.1	35.1	35.1	34.0	31.4
Percentage of protein in meal.....	44.9	44.8	44.9	40.8	40.1
Iodine number*	100.0	98.6	99.0	100.8	101.1

* See "Interpretation of Results" on page 78.

In this area the two early maturing varieties outyielded the others. Arlo placed first in yield in both 1958 and 1959. Polish placed second in both

these years. **Golden** and **Regina II** were quite similar in yield in 1959 and also in 1958. **R-5** was outyielded by the other four varieties tested in this area in 1959. **Arlo** and **Polish** were noticeably higher in bushel weight than the other three varieties. **Golden** contained the highest percentage of oil in this area. **Regina II** and **R-5** were equal and **Arlo** was slightly lower. **Polish** was substantially lower in oil content than the other four varieties tested. The three Argentine varieties were virtually equal in protein content in this area. **Arlo** and **Polish** placed fourth and fifth respectively.

Table No. 64—Southeast Area (Cereal Variety Zone 2A)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	233.2	207.3	173.3	368.7	322.2
Days from seeding to ripening.....	100.0	100.0	100.0	79.0	79.0
Height of plants in inches.....	24.0	22.5	23.5	26.0	25.5
Bushel weight in pounds.....	51.0	51.0	51.0	51.0	50.0
Percentage of oil in seed.....	34.6	34.0	32.7	30.5	29.2
Percentage of protein in meal.....	44.3	42.4	43.9	40.5	40.2
Iodine number*.....	100.0	99.5	100.0	101.3	100.8

* See "Interpretation of Results" on page 78.

In this zone **Arlo** and **Polish** outyielded the later maturing varieties by a considerable margin. **Arlo** was somewhat higher in yield than **Polish** while **Golden**, **Regina II** and **R-5** placed third, fourth and fifth respectively. **Golden** and **Regina II** were nearly equal in oil content while **R-5** was somewhat lower. **Arlo** ranked fourth and **Polish** ranked fifth in oil content. **Golden** showed the highest protein content followed by **R-5** and **Regina II** in that order. **Arlo** and **Polish** were noticeably lower in protein content than the other three.

**Table No. 65—Central and West-Central Area
(Cereal Variety Zones 2B and 2D)**

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	507.5	337.4	367.2	518.2	542.4
Days from seeding to ripening.....	108.5	115.0	109.5	88.5	87.0
Height of plants in inches.....	24.5	24.7	24.8	22.3	21.3
Bushel weight in pounds.....	50.0	50.0	50.0	52.0	51.5
Percentage of oil in seed.....	34.9	35.8	36.3	35.5	35.0
Percentage of protein in meal.....	41.0	41.0	41.1	43.4	43.1
Iodine number*.....	100.5	100.7	100.3	99.5	100.2

* See "Interpretation of Results" on page 78.

Polish outyielded the other four varieties tested in this area in both 1958 and 1959. **Arlo** placed second and **Golden** placed third. **R-5** and **Regina II** placed fourth and fifth respectively. Both were substantially lower in yield than the other three varieties in this area. The differences in percentage of oil were not great. Less than one and one-half percent separated the highest variety from the lowest. The variation in protein content was more noticeable. **Arlo** ranked first with 43.4% and **Polish** ranked second with 43.1%. The three later maturing varieties were lower in protein content. **R-5** had 41.1% while **Golden** and **Regina II** both had 41%.

Table No. 66—East-Central Area (Cereal Variety Zones 3A and 3C)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	878.1	834.6	662.4	814.5	814.1
Days from seeding to ripening.....	115.0	115.0	114.3	102.0	95.7
Height of plants in inches.....	31.3	30.8	29.8	31.0	30.3
Bushel weight in pounds.....	50.2	50.0	50.2	53.0	52.6
Percentage of oil in seed.....	41.5	39.6	40.6	34.6	34.1
Percentage of protein in meal.....	43.1	42.2	41.1	38.8	37.0
Iodine number*.....	100.1	100.0	99.8	99.5	100.0

* See "Interpretation of Results" on page 78.

In this area **Golden** outyielded the other four varieties tested. **Regina II** ranked second. **Arlo** and **Polish** were almost identical in yield but **R-5** was noticeably lower in yield than the other four. The oil content of the five varieties varied considerably. **Golden** showed the highest oil content with 41.5%. **R-5** ranked second with 40.6%, and **Regina II** placed third with

39.6%. **Arlo** and **Polish** were both noticeably lower with 34.6% and 34.1% oil respectively. **Golden** contained the highest protein content of the five varieties with 43.1%, **Regina II** placed second with 42.2% and **R-5** placed third with 41.1%. **Arlo** placed fourth with 38.8% and **Polish** ranked fifth with 37.0%.

Table No. 67—(North-East Area
(Cereal Variety Zones 3D, 3F and 4A)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	1881.8	2141.9	1438.0	1684.0	1393.3
Days from seeding to ripening.....	109.7	110.0	107.0	87.7	89.0
Height of plants in inches.....	38.7	39.0	36.7	36.7	34.0
Bushel weight in pounds.....	50.7	50.3	51.3	53.0	53.0
Percentage of oil in seed.....	42.5	41.5	40.9	36.2	32.3
Percentage of protein in meal.....	40.2	41.6	41.0	38.1	35.8
Iodine number*.....	101.2	99.3	99.0	100.5	100.7

* See "Interpretation of Results" on page 78.

In this area very high yields were produced. **Regina II** outyielded the other varieties by a substantial margin. **Golden** ranked second in this area in 1959. **Arlo** placed third in yield followed by **R-5** and **Polish** in that order. The later maturing varieties yielded the highest percentage of oil in this area. **Golden**, yielding 42.5% oil ranked first. **Regina II** placed second with an oil yield of 41.5%, while **R-5** placed third with a yield of 40.9%. The two early maturing varieties were substantially lower in oil content. **Arlo** yielded 36.2% oil and **Polish** yielded 32.3%. The three late maturing varieties were quite similar in protein content. **Regina II** placed first with 41.6%, while **R-5** yielded 41.0% and **Golden** yielded 40.2% protein. **Arlo** and **Polish** were both noticeably lower in protein, yielding 38.1% and 35.8% respectively.

Graphs showing rape yields in 1959.

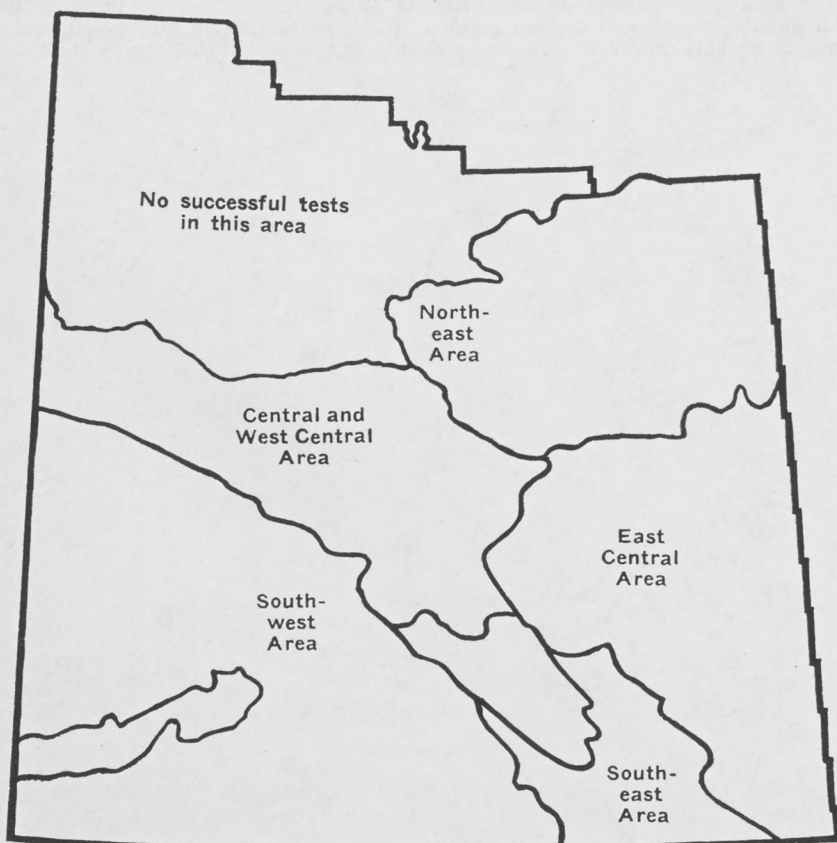
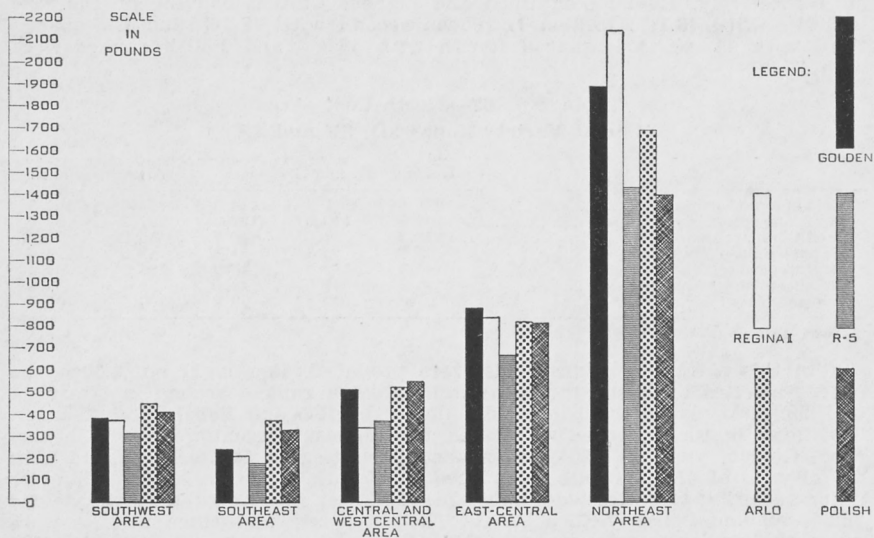


Table No. 68

Individual Summarized Results of All Tests—Rape

The results of all successful rape tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 78, headed, "Interpretation of Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization of Results by Areas.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-dist.	Varieties	Yield pounds per Acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks	% Oil	% Protein	Iodine No.
DONALD E. RICHARDSON, STOUGHTON												
2A.....	1	9	Golden.....	379.1	99	30	51	2 CR	—	36.9	37.8	99.5
			Regina II.....	309.9	99	30	51	2 CR	—	34.3	34.7	99.5
			R-5.....	237.3	99	30	51	2 CR	—	32.1	36.3	100.5
			Arlo.....	385.5	86	30	51	2 CR	—	27.0	33.0	102.0
			Polish.....	321.6	86	30	50	2 CR	—	25.2	33.0	102.0
Yield differences not significant. Rainfall—May to August 9.74 inches.												

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3A..... 1 4 Stanley Barnard, Willmar.

WHEAT POOL DISTRICT 2

DONALD G. CALLADINE, RADVILLE												
2A.....	2	1	Golden.....	87.2	101	18	A	2 CR	E.	32.3	50.7	100.5
			Regina II.....	104.7	101	15	A	2 CR	E.	33.6	50.0	99.5
			R-5.....	109.3	101	17	A	2 CR	E.	33.2	51.5	99.5
			Arlo.....	351.8	72	22	54	CR	—	34.0	47.9	100.5
			Polish.....	322.7	72	21	53	CR	—	33.1	47.4	99.5
Necessary difference—56.06 pounds. Rainfall—May to August 7.49 inches.												

DWIGHT D. OLLENBERGER, WOODROW												
1A.....	2	6	Golden.....	138.4	93	16	52	CR	—	32.5	36.1	100.5
			Regina II.....	77.3	101	14	A	2 CR	E.	27.4	36.8	98.0
			R-5.....	83.2	103	29	A	2 CR	E.	29.6	38.4	98.0
			Arlo.....	151.2	79	12	52	CR	—	30.4	34.7	100.5
			Polish.....	93.0	88	17	A	CR	E.	26.3	33.3	100.5
Yield differences not significant. Rainfall—May to August 4.44 inches.												

WHEAT POOL DISTRICT 3

JAMES P. WOLD, RAVENSCRAG												
1C.....	3	6	Golden.....	—	114	24	A	CR	E.	36.9	51.8	100.5
			Regina II.....	—	117	23	A	CR	E.	37.1	49.9	99.5
			R-5.....	—	111	22	A	CR	E.	37.1	50.6	99.5
			Arlo.....	—	86	22	A	CR	E.	38.3	47.6	99.5
			Polish.....	—	83	22	A	CR	E.	35.3	47.4	100.5
Unsatisfactory germination—yields not reliable. Rainfall—May to August 4.88 inches.												

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1C..... 3 7 Terry Envik, Chambéry.

WHEAT POOL DISTRICT 4

GREG T. SORENSEN, CABRI												
1D.....	4	5	Golden.....	—	87	10	51	2 CR	—	34.8	40.1	100.5
			Regina II.....	—	87	12	50	2 CR	—	35.0	40.4	98.0
			R-5.....	—	87	11	51	2 CR	—	35.6	39.9	98.0
			Arlo.....	—	75	12	52	CR	—	32.1	34.8	104.5
			Polish.....	—	74	10	53	CR	—	25.8	32.9	104.5
Unsatisfactory germination—yields not reliable. Rainfall—May to August 5.27 inches.												

Wheat Pool District 4—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield pounds per Acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks	% Oil	% Protein	Iodine No.
DERALD W. AHNER, MAPLE CREEK												
1B.....	4	6	Golden.....	840.3	97	32	53	CR	—	42.4	44.2	100.5
			Regina II.....	944.9	97	32	52	CR	—	42.0	44.7	98.0
			R-5.....	709.4	95	32	51	2 CR	—	42.2	44.5	98.0
			Arlo.....	356.5	89	32	A	CR	E.	36.4	37.1	95.0
			Polish.....	391.3	91	32	54	CR	—	36.1	36.3	102.0
Necessary difference—154.50 pounds. Rainfall—May to August 6.81 inches.												

WHEAT POOL DISTRICT 5

WILLIAM M. M. BROWN, VANGUARD												
1A.....	5	3	Golden.....	196.5	113	29	50	2 CR	—	34.9	51.6	100.5
			Regina II.....	150.0	113	29	51	2 CR	—	33.0	50.6	100.5
			R-5.....	168.6	109	29	51	2 CR	—	33.8	50.6	100.5
			Arlo.....	321.6	79	27	53	CR	—	34.2	44.7	100.5
			Polish.....	336.1	79	26	54	CR	—	33.3	47.0	99.5
Necessary difference—93.16 pounds. Rainfall—May to August 5.70 inches.												

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1A..... 5 4 Sherman Lyngstad, Neidpath.

WHEAT POOL DISTRICT 6

JACK J. LEIBEL, BALGONIE												
3C.....	6	7	Golden.....	734.0	108	27	53	CR	—	35.0	45.8	102.0
			Regina II.....	813.0	108	26	53	CR	—	32.5	43.9	100.5
			R-5.....	823.0	108	25	53	CR	—	37.0	43.3	100.5
			Arlo.....	1064.0	82	33	54	CR	—	31.9	36.8	99.5
			Polish.....	1043.0	82	34	53	CR	—	25.0	33.0	100.5
Necessary difference—236.44 pounds. Rainfall record incomplete.												

GARRY C. STEPHENSON, INDIAN HEAD

3C.....	6	8	Golden.....	360.5	127	—	50	2 CR	—	43.0	44.1	100.5
			Regina II.....	267.5	128	—	49	3 CR	—	42.9	42.4	100.5
			R-5.....	267.5	124	—	50	2 CR	—	42.2	44.1	100.5
			Arlo.....	318.7	120	—	53	CR	—	39.8	42.3	99.5
			Polish.....	276.2	120	—	53	CR	—	40.1	45.1	100.5

Yield differences not significant. Rainfall—May to August 6.87 inches.

WHEAT POOL DISTRICT 7

DONALD AND ROSS CLARK, INCHKEITH												
3A.....	7	4	Golden.....	886.8	97	33	51	2 CR	—	43.6	44.2	98.0
			Regina II.....	603.6	97	31	50	2 CR	—	41.7	47.0	100.5
			R-5.....	432.1	97	30	51	2 CR	—	41.8	42.2	99.5
			Arlo.....	395.4	87	28	54	CR	—	28.8	35.6	98.5
			Polish.....	403.0	87	25	55	CR	—	30.7	34.7	98.0
Necessary difference—265.22 pounds. Rainfall—May to August 6.83 inches.												

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3B..... 7 2 Robert and Douglas Clark, Fleming.

WHEAT POOL DISTRICT 8

SAMUEL BERG, SPRINGSIDE												
3C.....	8	4	Golden.....	—	128	27	47	Sample CR	—	40.1	45.6	100.5
			Regina II.....	—	127	28	47	Sample CR	—	41.0	42.7	100.5
			R-5.....	—	128	28	46	Sample CR	—	40.4	40.1	100.5
			Arlo.....	—	119	30	51	2 CR	—	39.9	46.9	99.5
			Polish.....	—	118	30	50	2 CR	—	42.0	41.3	100.5

Test damaged by livestock—yields not reliable. Rainfall—May to August 7.44 inches.

WAYNE LEE, INVERMAY

3C.....	8	7	Golden.....	1531.1	—	38	50	2 CR	—	45.7	35.8	99.5
			Regina II.....	1654.4	—	38	51	2 CR	—	39.9	34.8	98.0
			R-5.....	1126.9	—	36	51	2 CR	—	41.8	36.0	98.0
			Arlo.....	1479.9	—	33	53	CR	—	32.6	32.4	100.5
			Polish.....	1534.0	—	32	52	CR	—	32.8	31.1	100.5

Necessary difference—187.01 pounds. Rainfall—May to August 6.12 inches.

WHEAT POOL DISTRICT 9

Cereal Variety Zone	Dist.	Sub- dist.	Varieties	Yield pounds per Acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Com- mercial grades	Grading remarks	% Oil	% Protein	Iodine No.
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.												
2B.....	9	6	T. Robert Halstead, Nokomis.									
3D.....	9	8	Donald L. Hamilton, Leroy.									

WHEAT POOL DISTRICT 10

RONALD G. STORBO, HAWARDEN												
2D.....	10	6	Golden.....	—	—	25	A	2 CR	E.	36.7	45.9	100.5
			Regina II.....	—	—	29	A	2 CR	E.	37.3	45.6	100.5
			R-5.....	—	—	27	A	2 CR	E.	37.3	44.6	99.5
			Arlo.....	—	—	28	52	CR	—	40.1	44.6	99.5
			Polish.....	—	—	25	52	CR	—	38.1	45.7	100.5
Test damaged by insects—yields not included in zone summary. Rainfall record incomplete.												
JAMES F. WINDER, LAURA												
2D.....	10	10	Golden.....	49.0	104	28	A	2 CR	E.	33.1	44.9	99.5
			Regina II.....	—	—	—	—	—	—	—	—	—
			R-5.....	40.0	104	28	A	2 CR	E.	33.6	45.1	99.5
			Arlo.....	166.0	84	28	55	CR	—	40.5	44.8	100.5
			Polish.....	165.0	84	26	55	CR	—	37.4	41.5	100.5
Regina II destroyed by weather—yields not included in area summary. Rainfall—May to August 6.71 inches.												

WHEAT POOL DISTRICT 11

TIMOTHY D. McBRIDE, MARENGO												
1D.....	11	5	Golden.....	378.0	124	20	49	3 CR	—	37.1	42.1	98.0
			Regina II.....	401.2	126	21	50	2 CR	—	37.3	42.1	98.0
			R-5.....	340.2	126	21	51	2 CR	—	32.7	40.3	99.5
			Arlo.....	484.4	118	21	53	CR	—	30.9	38.5	103.0
			Polish.....	420.4	119	20	52	CR	—	28.1	36.4	100.5
Necessary difference—85.60 pounds. Rainfall record incomplete.												
GRANT W. G. GIBBINGS, ROSETOWN												
1D.....	11	7	Golden.....	319.8	108	30	49	3 CR	—	34.4	48.2	99.5
			Regina II.....	275.0	107	30	49	3 CR	—	33.6	49.0	98.0
			R-5.....	241.3	108	31	49	3 CR	—	34.7	50.0	99.5
			Arlo.....	920.5	79	30	51	2 CR	—	35.8	48.2	99.5
			Polish.....	782.1	80	29	51	2 CR	—	34.7	47.4	100.5
Necessary difference—143.11 pounds. Rainfall—May to August 6.01 inches.												

WHEAT POOL DISTRICT 12

CLAYTON H. KENNEDY, LUSELAND												
2D.....	12	4	Golden.....	412.9	—	14	48	3 CR	—	26.9	35.1	100.5
			Regina II.....	261.7	—	13	49	3 CR	—	28.8	35.4	102.0
			R-5.....	330.3	—	16	49	3 CR	—	30.0	38.9	102.0
			Arlo.....	238.4	—	8	50	2 CR	—	26.7	39.1	99.5
			Polish.....	251.8	—	10	50	2 CR	—	27.0	38.6	100.5
Necessary difference—90.54 pounds. Rainfall—May to August 4.67 inches.												

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

2D.....	12	5	Ronald Schwab, Revenue.									
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WHEAT POOL DISTRICT 13

ROY E. KAMINSKI, YOUNG												
2B.....	13	2	Golden.....	602.0	113	31	52	CR	—	41.0	42.1	100.5
			Regina II.....	413.0	115	32	51	2 CR	—	41.4	41.9	99.5
			R-5.....	404.0	115	28	51	2 CR	—	41.5	39.9	99.5
			Arlo.....	798.0	93	25	54	CR	—	39.7	46.5	99.5
			Polish.....	833.0	90	24	53	CR	—	39.8	45.1	99.5
Necessary difference—260.10 pounds. Rainfall—May to August 7.22 inches.												
ALFRED J. NIENABER, ST. GREGOR												
3D.....	13	11	Golden.....	2188.0	110	37	51	2 CR	—	42.1	45.9	96.0
			Regina II.....	2939.0	110	37	51	2 CR	—	37.8	45.7	108.0
			R-5.....	1377.0	108	35	52	CR	—	37.9	44.5	100.0
			Arlo.....	1005.0	101	32	53	CR	—	36.8	36.8	96.0
			Polish.....	855.0	102	32	52	CR	—	28.2	35.1	110.0
Necessary difference—523.93 pounds. Rainfall—May to August 9.90 inches.												

WHEAT POOL DISTRICT 14

Cereal Variety Zone	Dist.	Sub- dist.	Varieties	Yield pounds per Acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Com- mercial grades	Grading remarks	% Oil	% Protein	Iodine No.
LEONARD K. SCHWANKE, KUROKI												
4A.....	14	1	Golden.....	1936.4	112	44	51	2 CR	—	46.7	36.8	102.0
			Regina II.....	1891.6	113	45	50	2 CR	—	44.0	38.1	99.5
			R-5.....	1629.9	113	43	51	2 CR	—	44.5	37.3	99.5
			Arlo.....	2134.1	88	46	53	CR	—	40.3	34.9	100.5
			Polish.....	1728.8	90	41	53	CR	—	35.7	31.8	99.5
Yield differences not significant. Rainfall—May to August 6.54 inches.												
DALE A. POCKOCK, NIPAWIN												
3F.....	14	11	Golden.....	1521.0	107	35	50	2 CR	—	43.6	42.7	100.5
			Regina II.....	1595.0	107	35	50	2 CR	—	43.1	42.7	98.0
			R-5.....	1307.0	100	32	51	2 CR	—	41.4	42.9	98.0
			Arlo.....	1913.0	74	32	53	CR	—	34.1	40.7	100.5
			Polish.....	1596.0	75	29	54	CR	—	32.4	37.6	103.0
Necessary difference—22.60 pounds. Rainfall—May to August 6.30 inches.												

WHEAT POOL DISTRICT 15

RUDOLPH J. BULL, MESKANAW												
3D.....	15	1	Golden.....	278.0	—	—	47	Sample CR	—	37.6	35.3	101.0
			Regina II.....	246.0	—	—	47	Sample CR	—	41.0	39.9	100.5
			R-5.....	278.0	—	—	48	3 CR	—	39.6	39.4	99.5
			Arlo.....	78.5	—	—	A	CR	E.	33.4	39.9	100.5
			Polish.....	91.9	—	—	A	CR	E.	32.8	38.8	99.5
Test damaged by hail—yields not included in area summary. Rainfall record incomplete.												
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.												
3G.....	15	4	Mervin F. Dyck, Rosthern.									

WHEAT POOL DISTRICT 16

JAMES H. BEAVINGTON, HILLMOND												
3E.....	16	6	Golden.....	1586.3	114	29	50	3 CR	—	41.9	38.5	100.5
			Regina II.....	1595.1	114	29	49	3 CR	—	42.2	35.7	102.0
			R-5.....	1381.1	105	29	50	2 CR	—	41.0	35.7	98.0
			Arlo.....	1916.0	82	34	52	CR	—	34.2	36.2	100.5
			Polish.....	1755.0	84	32	51	2 CR	—	29.6	34.2	98.0
Necessary difference—341.51 pounds. Rainfall—May to August 10.42 inches.												
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.												
3E.....	16	4	Walter Mosimann, Edam.									

Conclusions

Crop yields varied widely in different parts of the province in 1959. In the southern part dry weather resulted in rather uneven germination and generally low yields. Grasshopper damage occurred in some areas of the south but effective control measures prevented widespread damage. In the north good moisture reserves in the spring and adequate rainfall in early summer assured good yields. Harvesting conditions in the south were ideal but in the north, repeated rain and early snow made it difficult to harvest even the small tests plots.

In the wheat tests interest centred around the two new varieties Pembina and Canthatch, which were identified only by numbers. Pembina, which resembles Selkirk but has added rust resistance, yielded about on a par with Selkirk in the eastern and south-eastern part of Saskatchewan. However in the drier areas farther west it failed to yield as well as some of the more drought resistant varieties. Canthatch, which closely resembles Thatcher but has stem rust resistance as well, proved to be even more widely adapted than Thatcher. Its yield under dry conditions compares with that of Thatcher and because of its stem rust resistance it is useful on the fringes of the rust area. It is not suitable for the south-eastern part of the province, however, since it is susceptible to leaf rust. Lake, the fifth wheat variety tested in 1959, proved to be well adapted to the west central and north-western part of Saskatchewan. It is not resistant to either stem or leaf rust.

In the barley tests Husky and Hannchen yielded well throughout most of the province in 1959. Vantage yielded well in the western and south-western cereal variety zones. It was not tested in the east and north-east. Compana was tested in only two cereal variety zones in the extreme south-western corner of the province and it yielded favorably in both these zones. Parkland and Montcalm were rather low in yield in the west and south-west. In the east and north-east, while Parkland was usually lower in yield than Montcalm, its greater rust resistance and stronger straw make it a more useful variety. Traill showed promise in a few cereal variety zones in eastern Saskatchewan.

Oat tests were conducted only in the eastern and northern part of the province where substantial quantities of this crop are normally grown. Under the conditions which existed in 1959, Glen yielded very well in most of this area. However, since this variety is not resistant to rust it would not be suitable for use in the rust area. Further testing is required to accurately assess the potential of this variety outside the rust area. Garry yielded well in the south-east, but yielded less than Rodney in the northern zones. Exeter varied considerably in yield from zone to zone but in general was not outstanding. Fundy produced only moderate yields in 1959.

Yields of rape varieties varied widely from one area to another. In the south and west-central part of the province the early varieties Arlo and Polish outyielded the later maturing varieties. In the north-east and northern area, varieties of the Argentine type produced higher yields. Of the two early varieties, Arlo was quite consistently higher in yield than Polish. Of the Argentine varieties Golden and Regina II were quite similar in yield, while R-5 was generally rather low in yield.

These tests have served a useful purpose in providing yield information from all parts of the province. We hope as well that they have been of interest to the members of the communities in which they were located, and that the experience gained by the supervisors will be useful to them in later life.

ACKNOWLEDGEMENTS

During the year a great number of agencies and individuals contributed in many ways to the success of this testing project. The Saskatchewan Wheat Pool wishes to express appreciation to all those who assisted in any way.

Special mention should be made of the following:

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The Experimental Farm, Regina, Saskatchewan
The Experimental Farm, Scott, Saskatchewan
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A special word of appreciation is due to more than three hundred young farm men and women who gave of their time and energy on a voluntary basis to conduct these tests in all areas of the province. Their interest and enthusiasm contributed in no small measure to the success of this project.

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SASKATCHEWAN WHEAT POOL

VARIETY TEST

ON THIS FARM

CONDUCTED WITH THE CO-OPERATION OF THE

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SUPERVISOR

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